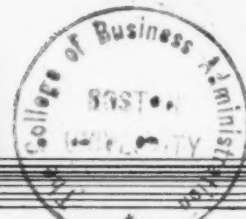


Manufacturers Record

Exponent of America



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Baltimore, Md.
APRIL 19, 1928

Slow But Sure Improvement in Farm Conditions.

Evidence continues to accumulate that agriculture, especially in the South is slowly but surely improving. The latest item on the favorable side is the recent statement of farm bankruptcies as compiled by the Department of Agriculture. In 1913 the number of bankruptcies per 1000 farms was 0.15, while in 1917 it rose to 0.30. Following the post-war deflation campaign of the Federal Reserve Board the number rose in 1924 to 1.22, or four times as many as in 1917 and eight times as many as in 1913; it rose to 1.23 in 1925, and went back to 1.22 in 1926. Farm bankruptcies do not follow as closely on the heels of financial changes as do commercial bankruptcies; the change for the worse, like that for the better, comes more slowly. In spite of the Mississippi flood, however, the total for the country in 1927 dropped to 0.99 per 1000 farms.

In the South the conditions that have brought about this change are clearly defined by students of conditions. The boll weevil drove cotton out of large parts of the cotton belt, and tobacco, peanuts and a great diversity of truck, poultry and dairy farming have taken its place. Since the factors who had financed and grubstaked the cotton farmers at ruinous interest rates, would not lend on the new crops, the farmers put their money in their pockets and paid cash. To a great extent they continue to pay cash. The present year begins with sales of fertilizer tags larger than in 1927. The whole situation has been helped by the absorption in industry of many men not suited to farming, as strikingly brought out in the symposium published in the Manufacturers Record for March 15. With many Southern farm communities enjoying a prosperity never known before and others learning the secrets of diversification and co-operation, it takes no seer to detect the dawning of a better day for farm life generally than the South has ever before known.

The Manufacturers Record knows full well that general prosperity does not yet rule among all Southern farming interests and it could not be expected that it would be possible for the agricultural interests of America to overcome the \$30,000,000,000 loss in farm values and crop values in 1920 and 1921 through the deflation campaign of the Federal Reserve System. But we do know that here and there individual farmers and communities are steadily advancing, although many individuals and many sections will yet have a hard row to hoe before well-rounded agricultural prosperity can be seen throughout the country.



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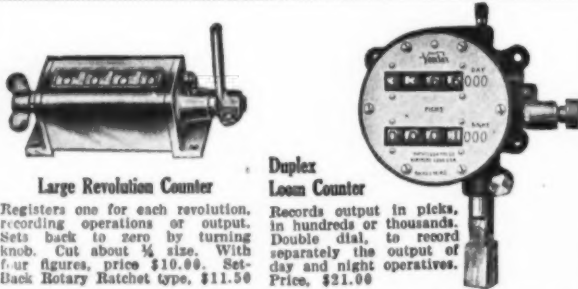
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General Jadwin's Plan of Mississippi River Control Discredited.

WHEN the MANUFACTURERS RECORD last summer came out strongly in favor of a development of storage facilities on the tributaries of the Mississippi as a means of protection against Mississippi flood disasters, the majority of technical and business papers, taking their cue largely from the Army engineers, were opposed to the plan as uneconomical, while the lower Mississippi Valley states utterly failed to grasp the opportunity for self-protection through this means. Today, however, largely as a result of careful study of the Jadwin plan and the Jadwin comments on reservoirs, the plan for impounding flood waters on the small tributaries of their origin is being forced into a dominant strategic position.

The President has found himself in a most peculiar situation, which has developed in this fashion: Last December General Jadwin submitted to Congress his plan for control of the Mississippi floods which, he estimated, would cost \$296,400,000 for construction, plus the costs of the rights of way. The states to be "protected" by the plan were to pay for the rights of way plus 20 per cent of the \$296,400,000, leaving a cost of \$237,120,000 for the federal government's share. Since General Jadwin is the President's official advisor in such matters and since the cost figures he presented were so much lower than had been expected, the President endorsed the plan.

But when civilian engineers came to examine the plan they found untried experiments, they found proposals considered unsound by able engineers experienced in river work, and expert testimony accumulated to overwhelming proportions in condemnation of the engineering features of the plan. Then the estimates of the cost of the rights of way, which General Jadwin had concealed by scattering them through the plan in fragments at wide intervals, were correlated, and it was found—and General Jadwin has admitted—that the rights of way necessary to his plan would cost over \$1,000,000,000.

Congress had upon its hands a plan which contained engineering features feared and distrusted by the states it proposed to protect; and Congress rightly concluded that it could not force the plan upon these states unless it would put upon the federal government full liability for damages resulting from a failure, in any future flood, of the Jadwin

plan. Also, it found that the plan demanded of three Mississippi Valley states a contribution of approximately \$1,250,000,000 while requiring of the federal government an expenditure of a little over \$237,000,000. Since the contribution demanded of the states to be protected was manifestly absurd and impossible, it put all of the cost—approximately \$1,500,000,000—upon the federal government.

Further, all of this vast expenditure was proposed to be made in permitting the undiminished Mississippi floods to overflow half the lower valley by confining them between higher levees; while the thousands of miles of valleys of the Ohio, Missouri, Arkansas and other tributaries, which would pay by far the larger part of the cost, would remain subject, as they now are, to devastation by the floods which, when combined, overflow the Mississippi Valley. So far as these rich valleys are concerned, they would remain to be protected after the outlay of \$1,500,000,000 had been completed in the lower valley.

This is the untenable position into which General Jadwin has gotten himself and his corps. No wonder Congress has repudiated him. And when the features of the Jones bill are considered, it is no wonder a presidential veto is so freely predicted.

In spite of the revelation of the tremendous cost of his plan, General Jadwin clings to his contention that tributary control is more expensive than wasting the unbridled floods into the Gulf. Apparently he is unable, even now, to admit that control of the tributary streams would save the tributary valleys and, in so doing, the Mississippi Valley. Others concerned in the fight, however, are not so obtuse. It is being perceived that should the Jadwin plan of financing the work be enacted into law, the inability of the Mississippi States to comply would render it futile, whereas a law providing for tributary control by reservoirs with local contributions would spread the local contribution burden over so vast an area as to render it readily acceptable and would therefore put a comparatively light burden upon the federal treasury.

It is fortunate for the country that the President is awake to the dangers and inadequacies, not only of the Jones bill but of the Jadwin plan. The Army engineers are in danger of being completely discredited along with Jadwin and his plan, while faith in storage and gradual release of flood waters gains ground steadily. Should the matter be taken out of the hands of Jadwin and turned over to a commission of able civilian engineers, or possibly of able business men

empowered to employ civilian engineers, the prejudice against storage would be eliminated and a solution speedily found.

All of these difficulties were easily foreseen early last spring when the suggestion was urged upon President Coolidge that a special session of Congress be called for the purpose of creating a commission of Army engineers, civilian engineers and geologists to make a thorough study of the situation and prepare a plan to be submitted to this session of Congress. If that had been done a definite plan could have been worked out which would have had the sanction of the country and doubtless of Congress. In view of the sad failure of the Engineer Corps in the past to recognize that levees alone could not solve the problem—which they now freely admit—neither the country at large nor Congress can have full confidence in any plan which the Engineer Corps submits. This unfortunate situation and the tangle into which the whole matter has been brought only serves to emphasize the correctness of the position taken by this paper last spring when through a personal appeal to the President and through the publication of many articles on the subject the supreme importance of a special session of Congress was reiterated time and time again.

THE MARKETING OF COTTON.

COMMENTING on a recent editorial in regard to the way in which Brazil is handling its coffee crop and England its rubber, the Raleigh Times, referring to a statement in this paper that D. A. Tompkins of Charlotte once suggested a combination of all cotton-producing States to control the speculation of cotton, says:

"What Mr. Tompkins probably had in his mind was a dream of a cotton growers' trust, which the various associations are even now working upon. But that is quite a different matter from a scheme by which the Government would attempt to fix the export price as a basis for making loans for stored cotton, with the inevitable result of tremendous crops and a Treasury of the United States greatly embarrassed."

The Times has misunderstood the position of the MANUFACTURERS RECORD and that of Mr. Tompkins. He did not want the National Government to undertake this, nor does the MANUFACTURERS RECORD want to see the Government have any greater control than at present over business affairs. We merely suggested that in the experience of Brazil and England there might be found a basis for some method of handling the cotton crop of this country without necessarily imitating exactly what those countries were doing. Mr. Tompkins' idea was that Southern States should themselves form some sort of combination for practically controlling the extent of cotton acreage and fixing a year in advance the price at which cotton could be sold or taken off the market, and held for that price through some organization representing all the cotton growing states. His idea was that a uniform price known a year in advance would be better for the grower and for the mill. This, he thought, would require legislative action by the states.

Possibly his plan may not be feasible, but we mentioned it as one of the theories of a man who had studied cotton as few other men in this country had ever done, studied it from the planting of the seed and the use of the seed through the picking, the ginning, the marketing, the warehousing, and the manufacture. We can recall few things advocated by Mr. Tompkins in public or private in which the wisdom of his judgment has not been demonstrated by subsequent events. He was strongly opposed to the centralization of power in Washington, believing that individual States could manage their own affairs very much better than they could be managed from Washington, and the whole country is now beginning to appreciate this fact.

"MAKING AMERICAN CITIZENS."

W. D. ADAMS, for many years secretary of the American Cotton Manufacturers Association, in writing in the Charlotte Observer about Fuller E. Callaway of Lagrange, Ga., who died recently, said that Ida M. Tarbell once asked Mr. Callaway:

"And what do you do at Lagrange, Mr. Callaway?" His answer, prompt and positive, was: "We make American citizens at Lagrange, madam, and run cotton mills to do it with."

Mr. Callaway was 57 years of age when he died a few weeks ago. He was the head and guiding genius of some 23 large corporations. According to Mr. Adams' statement there had never been disagreements or disputes of any kind in the mills Mr. Callaway directed, "for the simple reason that there was never any occasion for any disagreements or disputes. He never allowed anything to come between himself and his 'people,' as he affectionately termed them, and with the result that there existed between them an understanding and sympathy that never wavered, but grew with the passing years."

Mr. Callaway was the fourteenth child in a family of 17: the son of a poor Baptist minister who, without the backing of wealth or influential friends and without leaving his hometown, developed the vast cotton mill industry and other interests created by his skill and untiring energy. He was a credit not only to Lagrange and to Georgia, but to the South and the country. All too many of us in this busy world fail to realize that it is our job to make American citizens and Christian citizens as far as may be possible out of the people in our employ and with whom we come in contact.

Mr. Callaway's statement that his business in life "was to make American citizens" and his cotton mills were run for that purpose, strikingly presents an outline of his whole character and life. There is inspiration in the career of such a man; inspiration for those who would achieve and for those who have the inherent ability to do great things not merely for themselves but for all with whom they may be associated. In his comparative short life Mr. Callaway had amassed a fortune of some millions of dollars, according to Mr. Adams' statement, but every dollar was an honest dollar and not a dollar was ever made by oppressing his employees or by the methods of "high finance" so-called.

Measured by achievements in religious work, in community advancement, in the building up of a great chain of industries for the creation of employment and in the making of American citizens, Mr. Callaway's life stretched over a long period, though measured by the number of years his life seemed all too short for the wonderful work he was doing.

CAN WAR BE OUTLAWED?

THE Congressional Digest for March, which emphasizes the fact that it is "not an official organ controlled by nor under the influence of any party, interest, class or sect," publishes a number of articles pro and con on the question of the possibility of outlawing war. To all who are studying this subject this issue of that publication will prove extremely interesting. Some writers adopt what we regard as an impossible view in taking the ground that war can be outlawed and by that means prevented; many others take the opposite side, which is the view of the MANUFACTURERS RECORD, that war cannot be prevented by any legislative action whatsoever, although the world may gradually reach a point where there will be less demand for war than there is at present. The Congressional Digest, an extremely interesting magazine, has offices in the Munsey Building at Washington and is printed in Baltimore by Fleet-McGinley, Inc.

The Advertisement.

ADVERTISEMENTS are traveling show windows, a direct appeal of the advertiser to the reader. Their mission is twofold—to aid the seller to find and create demand, and to aid the buyer to find supply. If you do not read the advertisements you are not getting the full value of your time, for in them will be found a wealth of information.

Whenever you see an alert business man pick up a business publication almost invariably you will see him study the advertisements in it. With an appraising eye he reads the editorials and news articles to gain additional knowledge to store away for present or future use. More than that, as he is a seeker after all the facts, he reads the advertisements, knowing that the advertisements are there because they have a definite message for the business man. He is not in the mood for play or amusement, but is looking for information to guide him in carrying on his work with efficiency and profit.

In one advertisement he sees the romance of discovery woven around the product portrayed, and perhaps he visualizes the long road of hard work over which the originator of this product had to travel. In another advertisement he senses the increased efficiency by which research has enabled an advertiser to improve his product or develop a new one, which will mean a saving by its utilization. He is caught at once by still another advertisement which pertains directly to a mechanism, material or method, by the use of which in his own business he could cut operating expenses or increase the quantity or quality of his output. Such a man reads a business paper for personal gain and he knows that through the advertisements by business men for business men he will get, in the quickest and most concise manner, valuable information which can be turned to his own advantage.

In a recent issue of the *MANUFACTURERS RECORD* the discerning business or professional man may discover in the variety of advertisements published a mine of valuable information, some of which bears directly on his own field of operation and activity. Thumbing its pages, in one advertisement the reader would realize how far the human race has advanced since it first struck fire and learned to utilize it for bodily comfort, as shown in the development of equipment for scientifically distributing uniform heat throughout industrial plants.

Turning a page or two, he finds an advertisement illustrating modern engineering practices that brought about the adoption of standards of manufacturing and engineering product, resulting in greater efficiency and savings.

Another advertisement shows that through hundreds of years of manufacturing experience facilities have been developed for the making of alloy metal of the highest quality and how the efforts of experienced metallurgists and the alertness of veteran steel makers assure uniformity of product and adherence to specifications.

Turning to another page one is struck with the progress made for the advancement of health in which the physician, chemist, the engineer and the manufacturer are playing their part. This advertisement depicts a new health-giving glass providing indoor sunlight without which neither plant nor animal life can live.

No longer do buildings have "just floors." Floors are now constructed of materials that are selected for a particular purpose to give long life under every condition and wear, and in the advertisement referred to one is made to appreciate the value of special flooring materials.

For the highest mechanical efficiency, equipment must be specialized and of the highest quality suitable for the pur-

pose intended. This is illustrated by an advertisement which describes a special electrical device for industrial and central station installations.

Another advertisement brings back memories of the days when doors were "hung." Nowadays to meet the requirements of modern construction doors are selected, after due consideration, to give the proper service to which they are to be put. They are selected not only for durability and strength, but for beauty of design to harmonize with the rest of the building.

Efficiency is the goal for which we strive in these modern times; thus, one advertisement shows that a certain product used in public work for forty years of constant service, after being cleaned, was found to be as good as new and its re-use effected a saving to the taxpayers.

In construction, especially if a building is intended for industrial or office purposes, one of the first considerations is proper lighting and ventilation. The window space of your building may mean the difference between profit or a red ink balance. Workers under poor light and in ill-ventilated buildings cannot give the maximum efficiency. The manufacturer, with the aid of research, has brought about scientifically designed windows which not only solve the problem of "daylighting" a building, but of supplying the needed ventilation or aeration necessary for health.

Man has searched the world for raw materials and finished products to add to his comfort and welfare. In the United States we produce and consume a greater proportion of the things demanded by modern man than any other nation. New methods and new products are constantly being discovered and utilized. We find the Southern States at the forefront in using these immense resources. One State will lead all others in the production of some instrument of human need. The whole South, indeed, offers opportunities for manufacturers who are seeking advantageous locations.

Business in general is undergoing a revolutionizing process and one of the significant changes is the location of industries away from highly industrialized centers. Healthy expansion in manufacturing in the smaller towns is increasing and in the last few years the South, with its mild climate, abundant American labor, adequate power facilities and transportation, and enormous resources of great variety has attracted hundreds of millions of dollars for the establishment of new industries and the enlargement of old ones.

Southern public utilities, Southern railroads and Southern cities are giving facts about their industrial and manufacturing advantages which are convincing business men that they can operate more profitably in the South than elsewhere.

In the proposal advertising section of the *MANUFACTURERS RECORD*, freely used by States, cities, counties and public and private organizations, are found bids for new bond issues, buildings, paving and highway work, engineering projects, products and materials—a panorama of Southern activity in its broad sweep and in the character of its progress. This advertising section alone illustrates the extent and variety of construction activities under way in the South. Such advertisements for bids bespeak steady expansion and progress and offer opportunities to the investor, engineer, contractor, manufacturer and distributor of machinery and supplies. Any business man who fails to read these "tips" loses the opportunity to apply the wealth of valuable information found in the attractive and intensely interesting advertisements in the *MANUFACTURERS RECORD*.

The next time you receive your *MANUFACTURERS RECORD*, don't stop until you have read it from cover to cover, for unless you read the advertisements you are not dealing fairly with your "business self." The paper and the advertiser can only open the vista and point the way—the reader must follow through and use the fairway to progress.

MAKING KNOWN THE MINERAL RESOURCES OF THE SOUTH.

"UNDEVELOPED Mineral Resources of the South," by Dr. Henry M. Payne, consulting engineer of the American Mining Congress, and issued by that organization, is a book of over 350 pages in which Dr. Payne has summed up with infinite care after several years of study some of the mineral resources of the South by States, by details in regard to these minerals, and where found. We say advisedly that Dr. Payne has attempted to cover some of the minerals of the South, for the simple reason that it is doubtful if any publication could be prepared that would cover all the South's minerals, for scarcely a day passes that some new discovery is not made, or some new way found of utilizing the resources previously known but regarded as of little value. The "Undeveloped Mineral Resources of the South" is an ambitious publication which should have a wide circulation throughout this country wherever details are needed as to what minerals do exist in the South and where they are found.

In his opening statement, or preface, Dr. Payne says:

"The book is not offered as a strictly technical or geological work; but rather as a 'commercially convenient' compilation of the mineral resources of the South, designed to afford the student, the consumer, the investor, and the producer a ready source of information regarding the nature and extent of these minerals; how they may be identified; where additional supplies have been proven up, or areas whose surface indications warrant further prospecting; what economic factors have speeded, retarded, or prevented their development; and new avenues of outlet for the product.

"In the acquisition of this information, the writer has received the hearty and courteous support of the several Governors of the Southern states, the state geologists, the industrial agents of the various railroads, many staff members of the United States Geological Survey and the United States Bureau of Mines, the chief engineers of industrial corporations, professors of geology in the various universities and state colleges, and of industrial engineering firms and commercial bodies, to all of whom recognition is gratefully extended.

"In the closing chapter on Bibliography will be found a list of the various printed sources which have been reviewed and drawn upon for pertinent data. To give page and chapter references would extend this volume beyond its possible limits. In the case of regular journals and society proceedings, however, the annual indices will serve the reader equally well."

Another book by Dr. Payne, issued simultaneously by the American Mining Congress, is entitled "Natural Resources and National Problems"; in it are freely discussed many economic problems of the day such for instance as "Interdependence of Agriculture and Industry," "Labor and Immigration," "Economic Development of Power," "Power of Development and Industry," and "Public vs. Private Ownership." The amount of information given in these two books makes them a distinct contribution to the industrial and economic literature of the day.

J. F. Callbreath, secretary of the Congress, in the foreword of "Natural Resources and National Problems" says:

"The American Mining Congress offers these contributions as an authoritative basis for industrial development. The present volume, which only summarizes the great resources of the Southern mineral empire, discusses certain economic problems upon the solution of which depends the opening up of this vast storehouse.

"The second volume deals exhaustively with each separate mineral, its uses, the transportation facilities available and the competing markets and sources of supply.

"It is the aim of the American Mining Congress to assist in every practical way in bringing to the South the additional capital necessary to the more complete utilization of its vast mineral wealth. Suggestions which will aid in this behalf will be welcome."

It is a matter of profound importance to the South that the American Mining Congress should in this as in many other ways seek to aid in bringing about a full knowledge of

the South's great mineral resources and thus help materially to hasten their utilization. The American Mining Congress has its permanent headquarters in Washington and will always welcome an opportunity to give more detailed information about Southern minerals. "Undeveloped Mineral Resources of the South" comes from the press of Fleet-McGinley, Inc., Baltimore.

HOW, WHEN AND WHY NOT TO EXPAND SOUTHERN INDUSTRY.

THROUGH an industrial development conference held recently in Washington under the auspices of the United States Chamber of Commerce there ran a veiled thread of comment derogatory of the wisdom of industrial expansion in the South. The decentralization of industry was one of the subjects discussed. "When an industry is already developed to supply more than the demand for its products, additional plants should not be built," was the refrain of the discussion. Individuals or corporations contemplating the construction of plants of any sort were urged to inquire of the trade association of the industry concerned, and to take the advice of the association executives as to whether the new plant was advisable.

The thinly-veiled self-interest back of such counsel, and its absurdity, must be evident to any man whose self-interest does not discolor his vision.

Imagine the early builders of cotton mills in the South asking the association of New England cotton-mill men whether or not to build cotton mills in the South. Fancy Southern kraft paper manufacturers inquiring of an association dominated by Northern paper makers whether or not to expand their capacity or build new plants, or iron and coal interests asking the iron and coal people of other sections as to the wisdom of building furnaces or foundries or opening coal mines! Fancy any association of manufacturers anywhere advising a prospective competitor to go ahead and compete with them! With most of the great trade associations still dominated by manufacturers whose interests are in the North, how rapidly would Southern industrial development expand if, before a plant was built in the South the men contemplating its erection should go for advice to the manufacturers—or their association—with whom they proposed to compete?

When proximity to raw materials, abundant power, good labor and a great local market justify the location in a Southern community of an industrial plant, that plant will be built, regardless of the cries of manufacturers in other sections, or of "advice" from their association.

Another "Visit Virginia" Trip Planned.

Richmond, Va., April 14.—Approximately 50 of the leading business men of the Central States, principally from Indiana, Illinois, Ohio, Michigan and Kentucky, have accepted an invitation to come to Virginia, May 11-14, for an inspection of Hampton Roads and for business conferences which the Virginia State Chamber of Commerce hopes will result in mid-west freight moving abroad through Virginia ports. This visit is a sequel to the visit to their respective States by the All-British-Virginia delegation which the Virginia State Chamber of Commerce brought to the Old Dominion from England last year, several of those who are coming having aided the Virginia organization in the entertainment of the visiting British guests. In the Hampton Roads area, port facilities of Newport News, Norfolk and Portsmouth are to be inspected, railroad facilities of the ports are to be explained and arrangements will be made for visits to Virginia Beach, Jamestown and other historic spots in the section.



NEW PIPE PLANT OF BETHLEHEM STEEL CO.

General view of recently constructed unit at Sparrows Point. Small building in foreground is pipe mill office. Tall structure in front of mill buildings is gas producer building.

Bethlehem Steel Opens Great New Pipe Mills at Sparrows Point, Maryland.

By GEORGE A. RICHARDSON.

The new pipe mills of Bethlehem Steel Company recently put into operation at the Sparrows Point plant are so located as to get full advantage of the deepwater dockage facilities and the three railroads that serve the plant, and also to receive full benefit of the yard track connections to blooming and continuous mills of the same big plant.

All of the products of the steel plant, whether rails, wire, sheet or pipe are rolled from steel ingots, indirectly after reheating in the bloom or billet stage. The logical starting point for a description of the pipe mills is that point at which the billets are rolled into a shape peculiar to the manufacture of pipe. Steel in the first shape peculiar to the manufacture of pipe is called skelp. Skelp is produced by rolling the billets into bars of the required width and thickness, for any desired pipe diameter. Each piece of skelp is folded at one end and then drawn through a circular opening to form pipe of the desired size. This starting point in the process of pipe making is the skelp mill, which at Sparrows Point includes a billet-receiving crane-yard and skelp loading crane-yard besides the 600-foot brick and steel mill building. In the skelp mill are housed the reheating furnaces, rolling mill, shears and other machinery and equipment necessary to reduce the cold billets to the glowing strips called skelp. Adjacent to the skelp mill building are located the continuous mills for rolling billets, sheet bar and wide skelp for making large pipe. The finished skelp is transferred by rail the short distance to the pipe mill.

The new pipe mills are housed in a structural-steel and brick building made up of seven units or bays. Five of these units parallel each other, and running the long way of the building, house respectively No. 1 and 2 Butt Mills, which manufacture butt-welded pipe from $\frac{1}{8}$ inch to 3 inches in diameter, Pipe Galvanizing Shop and Machine Shop, a building bay for the manufacture of couplings, and the No. 1 and No. 2 Lap Mills, which make lap-welded pipe from 2 inches to 16 inches in diameter. Running at right angles to these 5 units and extending the entire width of all of them

are two buildings, one at each end of the group of 5, the first or incoming building with a capacity for storing 60,000 tons of skelp, and the second, or outgoing, for shipping the finished products and the storage of 25,000 tons of various sizes of finished pipe.

Furnaces in the pipe mill are heated by gas from a producer plant located in front of the mill group. The gas leaves the producers at temperatures between 1200 to 1400 degrees Fah., and passes to the heating furnaces through steel bricklined overhead flues. Dust catchers, located adjacent to each gas producer outlet and approximately every 50 feet in these flues, make it possible to deliver clean producer gas to the various furnaces.

The flow of material is in one general direction from the time it enters the skelp storage until it leaves the mills or warehouse as pipe. The manufacturing bays, as mentioned, run the long way of the building and are at right angles to the skelp storage, the warehouse and shipping bay. By extending the chargers and clipping and bending shears into the skelp storage, it has been made possible to utilize the storage cranes for transferring material direct from storage to the racks in front of these machines.

In its main details, the manufacture of steel pipe might seem a simple and easy operation, but in the large-scale commercial application of this apparently simple and easy operation innumerable difficulties creep in. For simplicity in describing the operation, let us speak in terms of a single length of one-inch pipe. The skelp for such a length will be a strip of steel 0.133 inches thick, about $4\frac{1}{4}$ inches wide and about 22 to 23 feet long—the excess length allowing for waste on each end. This piece of skelp must be bent so that the edges will come together in the shape and size of a one-inch pipe, and it must be bent into this shape at such a temperature that the edges, when pressed together, will flow and unite in one continuous ring throughout the length of the piece; in other words, the edges must form a perfect weld from end to end. To accomplish this, the skelp must be handled at white heat. If it is not hot enough, the weld

will be imperfect, and the pipe will split under pressure. If it is too hot, the metal will be spoiled.

The control of the temperature, therefore, is important, and the furnace needs careful attention.

The method of rolling the flat skelp into the shape of a pipe and pressing the glowing edges together in a straight,

the skelp enters the bell it is bent into a tube and the white-hot edges pressed together.

When the pipe emerges, glowing, from the bell, it is a shade oversize and is far from straight. After being reheated it is sent through rolls that straighten and reduce it to the required diameter; then to saws that cut off the ends back of any defective welds.

This description is of butt-welded pipe, in which the edges are butted together. Pipe between 2 inches and 3 inches in diameter is either butt-welded or lap-welded as ordered. Pipe 3 inches in diameter and larger is lap-welded. That is to say, the edges are scarfed and lapped and the weld has a larger area than is possible in a butt weld.

One of the most striking features of the lap weld mills is a control system which enables a single operator, located on an elevated control platform, to direct the movements of every piece of equipment in the hot-mill end.

The testing of all pipe is a vital part of the work. Every length must stand the numerous rigid tests that are applied at various stages of the work. The soundness of the welds is tested by forcing water into the pipe under high pressure. For routine testing a pressure of 750 pounds per square inch is used, but the equipment includes four intensifiers which give a wide range of pressures for large pipe and for pipe to be used in ammonia plants or other work requiring unusual strength. A weld that leaks under pressure, surface defects, split ends, and crookedness are among the causes for rejection. Pipe that passes final inspection goes to the coupling screwing-on machine, where each length is fitted with a coupling, and thence to the oiling machine, where a quick-drying coating, impervious to air, is applied to prevent rust in storage or in transit.

An interesting feature of the new pipe mills is the galvanizing department. The equipment includes two sulphuric acid tubs, a rinsing tub, a muriatic acid tub, a drawing rack, drying plates heated by waste gas and a galvanizing pot, together with an inclined draw bench, cooling rack, etc.

In general the procedure up to and including the galvan-



GENERAL VIEW OF WAREHOUSE.

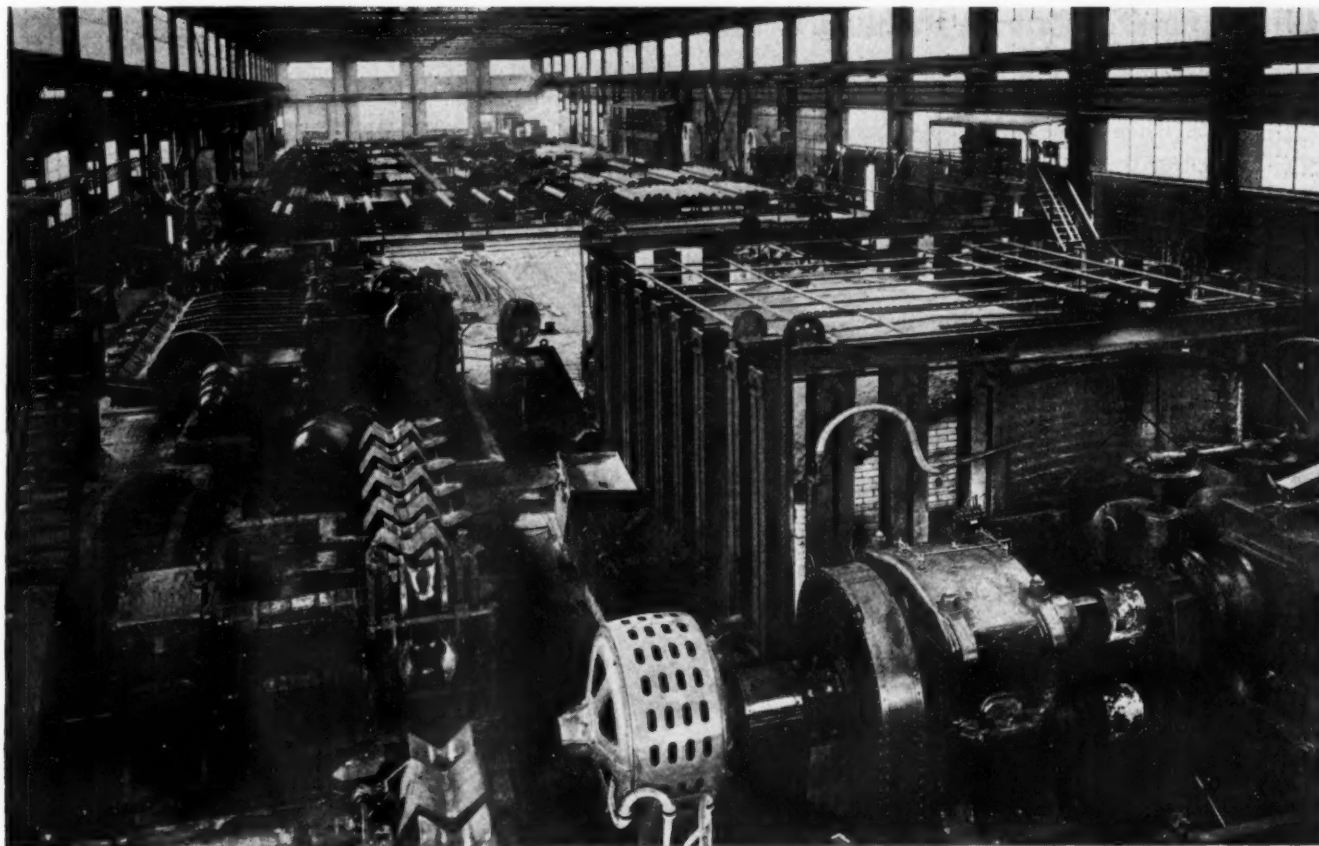
Two overhead travelling cranes either stack the pipe for storage or load it in the cars on the right.

even line, is, briefly, to draw the strip through a circular orifice, or as it is called in the mill, a "bell." A bell of this sort is nothing more or less than a block of steel having a suitably sized round hole with a funnel-shaped approach. The square corners of the advance end of the skelp are lopped off at an angle, and the first few inches of length bent up to facilitate the entrance of the skelp to the bell. A pair of tongs is thrust through the bell, clamped onto the end of the skelp and hooked to a link in an endless chain that draws the tongs and the skelp swiftly through the bell. As



FINISHING DEPARTMENT—No. 1 and No. 2 BUTT MILLS.

In the foreground are three hydraulic testing machines. Back of these are threading machines.



NUMBER 2 LAP WELD MILL SHOWING COMPREHENSIVE LAYOUT.

Furnace and rolls in foreground. Driven roller conveyors handle the pipe from operation to operation throughout the entire mill.

izing operation represents standard practice. Pipe to be galvanized is deposited on a receiving rack which extends into the butt weld mill building and is served by the crane in this building. The pipe is delivered from the receiving rack into the sulphuric acid pickling tubs on top of large bronze sprocket chains hung in the various tubs. At given intervals these chains, which are operated by motor driven sprockets, roll the pipe around in the bath and insure thorough pickling and cleansing.

Among the operations which merit attention in the galvanizing department are those that come after the actual galvanizing. Each piece of pipe is wiped by being drawn through steel wipers, which insures a smooth finish and results in a very satisfactory spangle. The drawbench, by way of which the pipe is hauled out of the bath of spelter, as the molten zinc is called, is inclined, enabling any excess molten spelter to drain back from the interior of the galvanized pipe into the galvanizing pot. As the pipe is drawn up the incline to the top of the draw bench each piece is

applied against the nozzle of a compressed-air line, the air being used to blow the interior clean and get rid of any excess spelter. From the draw bench the pipe goes to the cooling rack where it is allowed to cool slowly, while it is being conveyed to the delivery end. Galvanized pipe is not dipped in water at the Maryland plant. The elimination of the water dip is one of those small refinements which aids in giving a better spangle finish and appearance. After cooling, the pipe is thoroughly inspected both on the inside and outside and then goes to the threading machines. The subsequent handling of the galvanized pipe is the same as that of black pipe, with the exception that there is no oiling of the surface.

Adequate storage facilities for pipe of all sizes are essential to prompt filling of orders, and the new mill has a warehouse in which pipe may be stocked until needed for shipment when it can be loaded directly into freight car for rail shipment or for transfer to a vessel at the dock. Pipe may also be carried directly from last inspection to shipment without passing through the warehouse.

National Business Men to Meet.

Current manufacturing problems, such as labor conservation, excessive competition, overproduction and shrinking profits, will be discussed at the sixteenth annual meeting of the Chamber of Commerce of the United States, in Washington, May 7 to 11. The program provides for three set talks, after which the meeting will be thrown open for the consideration of any subject which a delegate may desire to discuss. "Teamwork For Profits in a Consumers' Market" is the subject of an address to be made by E. J. Mehren, vice-president of the McGraw-Hill Publishing Company, and "Forecasting and Planning—Vital to Industrial Prosperity," will be presented by Donaldson Brown, vice-president, General Motors Corporation. The human relations situation in indus-

try, which includes such questions as unemployment, the elimination of workers by labor-saving machinery and the need for better trained workers and supervisors, will be the third subject discussed before the manufacturing group. Also, C. S. Ching, manager of the employment division of the United States Rubber Company, and president of the American Management Association, will speak on "Labor Conservation—Teamwork For Lower Costs of Production."

Bradenton Establishes Airport.

Bradenton, Fla.—An airport has been established between this city and Sarasota on the Tamiami Trail, about two miles south of the Manatee County courthouse. It is L-shaped with one run 3000 by 200 feet and another 2000 by 200 feet.

Millions for Government Building Projects in the South.

Following the selection of 72 initial projects under the Government building construction program for virtually immediate commencement, President Coolidge has presented to the House of Representatives a second list, divided into two groups, of 93 cities recommended by the Treasury Department for purchase of sites and construction work. The first group of 66 calls for a total cost limit of \$35,565,000 and necessary appropriations of \$9,380,000, and the second group cost limit is \$31,690,000, with appropriations of \$6,083,500 required, making an aggregate of \$67,255,000 in cost limit and \$15,463,500 in required appropriations.

For the 19 Southern cities named in the original list, the estimated cost was \$18,325,000 and the appropriations totaled \$4,415,000. For 23 Southern cities named in the first group of the recent recommendations, the total cost aggregates \$7,715,000 and the required appropriations run to \$2,105,000, while in the second group appear four Southern cities, with a total cost limit of \$3,745,000 and required appropriations of \$435,000, making a grand total for the South in the two groups of the latest recommendations \$11,460,000 cost limit and \$2,540,000 required appropriations.

The Southern cities in the first group of 66 cities, in the recent selection, are:

	Cost Limit	Appro. Required
Beaumont, Texas; postoffice and courthouse	\$40,000	\$40,000
Bogalusa, La.; postoffice, etc.	130,000	75,000
Clarksburg, W. Va.; postoffice, courthouse, etc.	475,000	175,000
Cumberland, Md.; postoffice, courthouse, etc.	265,000	75,000
Eldorado, Ark.; postoffice, courthouse, etc.	410,000	75,000
Galveston, Tex.; marine hospital	740,000	100,000
Greensboro, N. C.; postoffice, courthouse, etc.	900,000	250,000
Kingsport, Tenn.; postoffice, etc.	215,000	50,000
Lubbock, Tex.; postoffice, etc.	160,000	50,000
Lumberton, Miss.; postoffice, etc.	60,000	20,000
McMinnville, Tenn.; postoffice, etc.	85,000	20,000
Memphis, Tenn.; custom-house, postoffice and courthouse	900,000	150,000
Morgantown, W. Va.; postoffice, etc.	125,000	50,000
New Bern, N. C.; custom-house, postoffice, courthouse, etc.	210,000	50,000
New Orleans, La.; quarantine station	425,000	150,000
Okmulgee, Okla.; postoffice, courthouse, etc.	330,000	75,000
Portsmouth, Va.; postoffice, custom-house, etc.	140,000	50,000
Salisbury, N. C.; postoffice	25,000	25,000
Savannah, Ga.; postoffice, courthouse, etc.	900,000	300,000
Sheffield, Ala.; postoffice, etc.	95,000	50,000
Spartanburg, S. C.; postoffice, courthouse, etc.	420,000	125,000
Tampa, Fla.; courthouse, postoffice, custom-house, etc.	550,000	100,000
Taylor, Tex.; postoffice, courthouse, etc.	115,000	50,000
Totals	\$7,715,000	\$2,105,000

*Alternate limit of cost, \$425,000.

The Southern cities in the second group are:

	Cost Limit	Appro. Required
El Paso, Tex.; Federal office building	\$535,000	\$50,000
Lynchburg, Va.; postoffice and custom-house	550,000
Richmond, Va.; postoffice, courthouse and custom-house	1,500,000	100,000
Tulsa, Okla.; postoffice, courthouse, etc.	1,160,000	285,000
Totals	\$3,745,000	\$435,000

The Budget Bureau also is giving further consideration to recommendations for a site and building for St. Louis, and is expected soon to reach a decision and announce it to the Congress.

American Welding Society Program.

Subjects of interest and importance have been featured in the program for the annual meeting of the American Welding Society, to be held in the Engineering Societies Building, New York City, April 25, 26 and 27. The Pressure Vessel committee will meet in the morning of the first day, the Structural Steel Welding committee in the afternoon and the Nomenclature committee in the evening. Technical and business sessions will be held on the second day, with discussions

of structural steel welding, pipe welding and pressure vessels, and the annual dinner will take place in the evening. The third day will be devoted to a meeting of the board of directors and discussion of technical subjects, with the annual meeting of the American Bureau of Welding in the afternoon.

\$350,000 Benzol Refinery for Port Arthur.

Port Arthur, Tex.—E. C. Harris, representative of Arthur E. Stilwell, announces that the latter will soon select a site here for a \$350,000 unit of a benzol refinery with a capacity of 1000 barrels daily, other units to be erected later. It is understood the General Benzol Corporation will be organized to erect and operate the plant. Will Hogg, Houston, Thomas Rice, Galveston, and Travis Lambert, Port Arthur, are said to be interested.

Airway Developments South.

The Hotel Floridan, Tallahassee, Fla., advises that it will give licensed aviators and mechanics a special rate upon presentation of Department of Commerce license card to the room clerk. The hotel asks that reservations be made in advance if possible.

The city of Tallahassee and the Chamber of Commerce have purchased a new airport site two miles west of the city line. Improvements will start shortly and the field will probably be ready for use in the fall. More ground with slightly better approaches than the present field will be provided.

On the reverse of the letterhead of the municipal airport of Miami, Fla., is a full page map of Miami and its environs with the location of every landing field and seaplane station marked. Permanent land marks are given, together with the air-line distances between Miami and other cities in Florida, Alabama, Georgia, South Carolina and Cuba.

The survey of the Dayton-Cleveland section of the Louisville-Cleveland airway is now complete except for some minor changes in routing designed to reduce the mileage between the terminals.

The survey of the Selma, Alabama to Birmingham section of the New Orleans-Atlanta airway has been completed, with a selection of sites for two intermediate landing fields and five 24-inch beacons and two acetylene blinkers. The survey of the Birmingham-Atlanta section is proceeding. All the field and beacon sites will doubtless be secured before May 1.

The majority of sites along the Atlanta-New York airway have been completed and lights turned on, in all sections except the Greensboro-Richmond. The conditioning of fields is being rapidly accomplished, the disappearance of winter weather making possible the speeding up of this work. Airway mechanics have been assigned to the various sections and have taken over maintenance of the lights. Caretakers are being hired for the various fields and are being instructed in their duties. The airway between Atlanta and Greensboro will be maintained by the Sixth district office at Charleston, S. C., and the section between Richmond-New York by the Third Lighthouse district office, New York City.

Of 2715 airplanes tabulated by the Department of Commerce as licensed, identified or given temporary numbers pending inspection out of the total of 4555 applications in March, the South, including the District of Columbia, showed 719, or about 26 per cent. California led with 456 and New York was second with 268. The Southern States showed: Missouri, 112; Texas, 204; Oklahoma, 84; District of Columbia, 27; Florida, 46; Virginia, 32; North Carolina, 22; Georgia, 31; Louisiana, 31; Arkansas, 25; Tennessee, 20; Maryland, 34; South Carolina, 10; West Virginia, 15; Kentucky, 14; Mississippi, 4; Alabama, 8.

Texas Farmers Want Electricity.

By J. E. WAGGONER, Research Agricultural Engineer, Agricultural and Mechanical College of Texas.

There are a few farmers in Texas that have had electric service from central power stations for almost 25 years, but of the 505 recently surveyed, by far the largest percentage were only recently connected with power lines. Eleven per cent, or 55 of them, had received the service for five years, while 47 per cent, or 237 farms, had been on the lines less than a year and a half.

The rapid increase in the past two years of farms using central station power was largely spontaneous, as little organized effort had been made to secure farm customers. This seemed to indicate a great, almost dormant demand, and suggested that a very much larger active demand could be cultivated, provided enough uses for electricity could be found on the farms to make the farm load pay its way with the power companies.

The survey covered not only the equipment used and services performed on these 505 Texas farms, but also the difficulties that stand in the way of a much larger use of electric energy by the farms after they have been electrified. As in other States that have gone into this subject, so in Texas, it was found that, except for dairying, very little equipment has ever been designed especially for farm service, and that in the sphere of farm production, there were many operations that might conceivably be carried out by electrically driven equipment if such equipment could be designed and manufactured at reasonable cost. In other words, our farms present a great and almost unexplored field for the inventors and manufacturers of electrical equipment. A few processes, milking, for example, until recently a purely manual operation, are now done electrically, with the result of a large

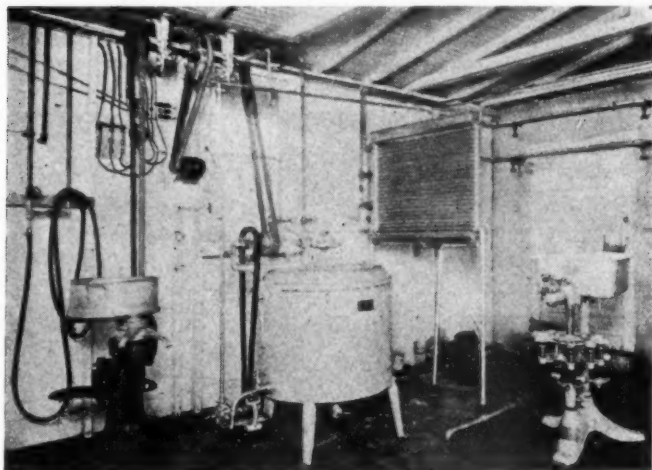
home, but added little or nothing directly to the farm income.

Sawing wood, pumping water, milking cows—such income-producing work on the farms surveyed in Texas consumes only 10 per cent of the energy used. To reverse this ratio without cutting down on the domestic consumption would mean multiplying the uses outside the home nearly a hundred times. These figures are not stated as accurately measuring the possibilities. They are merely suggestive of the large field for expansion in the use of electricity on the farms.

As a result of the survey, at least 25 test farms are to be located in different parts of the State. They will include



ELECTRICITY PUMPS WATER TO HOME AND BARN.



A CORNER IN A DAIRY.

Showing cream separator, pasteurizer, milk cooler and refrigerator.

saving in farm wages. As other uses are found for electricity on the farm, and the load on the rural power line is thus increased, the power companies may find it possible to serve their farm customers at lower rates. How to increase the individual farm load, therefore, is a big problem in rural electrification. The survey mentioned was designed to serve as the first step in its solution by defining a number of processes that seem most readily susceptible of electrical application.

It was found that on the farms already electrified fully 90 per cent of the consumption of energy is in the use of equipment first designed for and used in urban homes. Lights, fans, toasters, irons, ranges, vacuum cleaners, washing machines—such domestic appliances made life easier in the

cotton, dairy, poultry, truck, grain and general farms. They will be operated as far as possible by electricity. Careful records will be kept of energy consumption of various types of equipment and of the returns therefor, and experiments will be carried out in the substitution of electricity for other kinds of power. It is expected that the experience gained on these farms will greatly increase the value of electricity to the farmers of the State.

Flotation of Low Grade Phosphate Ores.

Preliminary tests of the flotation of low-grade Florida phosphate ores, conducted by the United States Bureau of Mines, indicate that this process may be used for the beneficiation of phosphates wasted under present-day methods of treatment. While the results so far obtained in this investigation can not be applied directly to commercial practice without further research, they do indicate that flotation gives promise for the beneficiation of phosphates. Further investigation along similar lines may develop a process which will yield higher recoveries of phosphate rock from the ores now mined, and thus permit profitable operations on leaner deposits, or warrant retreatment of debris—washer reject—discarded in previous operations. Smaller tonnages of matrix could be mined to maintain a given production program, and reserves of phosphate rock would be depleted less rapidly.

Potential Power of Southern Labor As Illustrated in the Biltmore Industries of Asheville.

Dr. John Harvey Kellogg, head of the noted Battle Creek Sanitarium, after a careful investigation and study of the hand-woven homespun goods made at the Biltmore Industries, Asheville, N. C., writes that this is "the most remarkable discovery in health clothing that ever has been made."

Dr. Kellogg tested this cloth in various ways, having gone from Battle Creek to Asheville for the express purpose of studying the system of manufacturing. Dr. Kellogg's explanation of his discovery as to the health qualities of the clothing, as given by him, is that "It was partly or largely due to the old-fashioned, plainly twisted homespun thread, which, when woven, left a more open cloth through which light and air may pass, and partly to the purity of absolutely new wool without dilution, fine wool filling, cotton or any added thing. It is simply the very best grade of old-fashioned sheep's wool, and the grade of wool our grandfathers and grandmothers wore in the days when people were healthy."

It is an interesting fact that such an institution as this is located in the South, and that the operatives are wholly from the mountain people of Western Carolina, and that this institution has now grown to a point where it is said to be the largest hand-weaving industry in the world.

Twenty-five years ago Mrs. George W. Vanderbilt, whose palatial home is located at Biltmore, undertook in the interest of the mountain people to establish a little plant to encourage them in hand-weaving. These people had been weavers for generations, but their methods were somewhat crude. They carded and spun their wool entirely by hand. They had the simplest form of handlooms. They threw the shuttle with one hand and caught it with the other. They dyed their cloth in the few colors that could be obtained from local roots and herbs. Mrs. Vanderbilt established a school for the mountain people and here they were taught how to handle

the crude wool, wash it, and dye it, card and spin it, and make it into warps. The warps were then sent to the homes in the mountains where handweaving was done. That was the interesting beginning of what is now one of the great industries of the South.

It grew beyond the amount of time and attention that Mrs. Vanderbilt could give to it, and so in 1917 it was sold to F. L. Seely, who had built and was operating Grove Park Inn, one of the most remarkable resort hotels in the world. New buildings were erected not far from the Inn, and the style of these structures is indicated in the accompanying illustration.

The weaving is all done by native men from this mountain region. The water is brought down from the top of Mt. Mitchell, nearly 7000 feet in altitude. In a circular giving some particulars in regard to the history of this enterprise Mr. Seely says:

"There isn't anything known that would produce a better woolen cloth than we produce in Biltmore Homespuns. We use the very best wool grown in the entire world. We use only the wool from full-grown sheep, because lamb's wool will shrink almost as long as there is any of it left. We use the finest of dyes, the purest of water, and we do not even use our own waste wool. We sell that to other woolen manufacturers."

This business has now developed to a point where Biltmore Industries has, we believe, some 20,000 to 30,000 individual customers scattered all over America. Its development from the infant industry of 25 years ago to the great institution of the present is an interesting illustration of what can be done in the South and with Southern labor. This labor of the Southern mountain regions, where for generation after generation the people have done really wonderful weaving, is the kind of labor which is going into the cotton mills of the South and which is becoming expert to a degree that these



VIEW OF THE SHOPS IN WHICH THE HOMESPUN GOODS ARE MADE.

mills will be able to produce as fine a grade of goods as can be made in the world. This is true native labor, and from these mountain regions, as from a beehive, pours a steady stream of laborers seeking employment in the industrial pursuits that are being developed throughout the South.

The South has vast mineral, agricultural and other resources; but its greatest asset, without which its minerals and agricultural potentialities would count for but comparatively little, is the amount and quality of its Southern labor. This is being demonstrated in every cotton mill in the South, in hundreds of diversified industrial enterprises, as well as in the remarkable record of this North Carolina institution which is turning out such homespun goods.

Foreign Trade Council Features Tariff Address.

The program of the convention of the National Foreign Trade Council at Houston, Tex., April 25, 26, 27, features an analysis of "The Prospect in Europe" by George P. Auld, former Accountant-General of the Reparations Commission, and addresses by E. P. Thomas, president of the United States Steel Products Company, on "The Foreign Trade Outlook," and by James P. Butler, president of the Canal Bank & Trust Company, New Orleans, on "Foreign Trade Developments in the Gulf States." The merchant marine situation will be reviewed by Norman F. Titus, of the Bureau of Foreign and Domestic Commerce.

The foreign trade aspect of the tariff, much discussed at last year's convention at Detroit, will be analyzed at Houston by George C. Davis, customs adviser of the National Council of American Importers and Traders, Inc., and William R. Castle, Assistant Secretary of State, will speak on "The Department of State and American Enterprise Abroad." The convention will be closed with an address on "Foreign Trade Progress" by James A. Farrell, president of the United States Steel Corporation, who has presided for 14 successive years over these gatherings as chairman of the National Foreign Trade Council.

At the American Manufacturers Export Association luncheon on April 26, a demonstration of quick transmission of cable messages to cities in Latin America and of world-wide cable service will be given by representatives of the All America Cables with the co-operation of the Western Union Telegraph Company and the Commercial-Postal Company. Messages will be sent to Buenos Aires, Rio de Janeiro, Valparaiso, Havana, Mexico and other cities from an apparatus on the platform and replies will be received and read for the benefit of the delegates present.

About 1500 delegates are expected to attend the Houston convention and the Council office reports that registrations are now running ahead of the average for the past five years.

Tennessee County to Build \$500,000 Workhouse.

Memphis, Tenn.—Plans are being prepared by Hanker & Cairns, Memphis, for a workhouse to be erected here by Shelby County Court at a cost of \$500,000, including \$50,000 for equipment. Harry Hunter, Memphis is the engineer. Convict labor will be used for the building and mechanical equipment let to contract. A bond issue of \$350,000 has been authorized.

\$775,000 Greensboro Improvements Authorized.

Greensboro, N. C.—Improvements planned for the remainder of 1928 in Greensboro include street improvements, water works extensions and sewers. The city's authorization covers \$500,000 for streets, \$150,000 for a filtered water storage reservoir of 18,000,000 gallons capacity and \$125,000 for storm sewers.

Oil Prospectors Active in Louisiana.

By THOMAS EWING DABNEY, New Orleans.

Is New Orleans to be the center of a new oil field, perhaps a field that will rival the production of other sections? At the very doors of this city, and throughout its immediately surrounding territory, even in the marshy sections that have heretofore been considered valuable only for duck shooting and fishing, some of the large companies are pushing their tests to locate the domes under which lies oil.

The activity has been intense since the coming in of the McElroy gusher, 35 or so miles from New Orleans on an air line, and slightly closer to Baton Rouge. This is on the east bank of the Mississippi. For years, geologists and oil men scoffed at the probability of oil being found east of the river, and very little exploration work was done. But McElroy disproves that—a 10,000 barrel gusher brought in by the Gulf Producing Company.

The McElroy well is about eight miles from the Mississippi, in the swamps of Ascension parish. The Gulf people are now drilling two more wells nearby. They have erected at McElroy five 55,000-barrel tanks, and six loading racks.

An organization of New Orleans men has just been announced to develop 4000 acres adjoining the Gulf's McElroy holdings. The company, known as the Triumph Oil Corporation, is incorporated for \$300,000, and plans to drill three wells to prove up the territory, the first to be started before the end of May. Officers of the Triumph company are: O. P. Montagnet, president; J. Emile Jarreau, vice-president; F. Oliver Roshko, secretary-treasurer; directors, B. A. Russ, Mrs. W. A. Gordon, Aaron S. Cox, John D. Torreyson, S. G. Hayes, E. G. Cognevich, D. A. Solis.

Oil activity between Baton Rouge and New Orleans is intense. The Roxana and the Gulf companies are making thorough explorations in the parishes of St. James, St. John and St. Charles, adjoining Ascension; as well as in the zone of the Darrow dome, southwest of Sorrento, and a few miles upstream. Besides these companies, the Calcasieu company and the Union Sulphur Company have acquired large holdings, and announce plans for beginning drilling shortly. The Roxana company recently leased 15,000 acres in St. Charles parish, and exploration work is also being pushed in Jefferson parish, which immediately adjoins New Orleans. The St. Charles parish line is about 15 miles from the city.

It is estimated that more than \$1,000,000 is being spent in the McElroy territory for development work.

The Acme Producing Company of New Orleans has 1400 acres of land under lease in the McElroy territory, and is drilling two wells. In the marsh lands below New Orleans, some of the large companies are now pushing their exploration work. Jules Fisher, State Senator, recently discovered a surface flow of an oily substance on the prairie near Lafitte, a fishing village a dozen or so miles from New Orleans, and this threw that section into a furore.

For more than a year, the Gulf and Roxana companies have been pushing exploration work in the parishes on the north side of Lake Pontchartrain—Tangipahoa, St. Tammany and Washington. It is reported in conservative circles that several domes have been located, though no announcements have been made and no drilling operations have been started. Some geologists and oil men believe the probabilities are good that a great oil field will be developed in the New Orleans section.

Beaumont Votes \$1,500,000 School Bonds.

Beaumont, Texas.—Two bond issues aggregating \$1,500,000 have been voted here—one of \$900,000 for the construction of a high school and the other of \$600,000 for a new negro school and repairs and additions to white schools.

Tourist Travel and Conventions of National Importance.

Memphis Convention and Tourists Bureau.

Memphis, Tennessee.

Editor Manufacturers Record:

I have read your recent letter with a great deal of interest for the reason that there are not many men outside the boards of directors and direct contributors to the convention and tourists' funds who apprehend the enormous volume of the tourist business. There are many men engaged in one or more supply activities who understand a little about it, because in serving several thousand automobilists during the year, they are bound to understand that this business must be very large if it covers the entire country. Their grasp of the matter in a natural way, however, is vague.

At the Chamber of Commerce here in Memphis, for a great many years we have maintained a tourist information bureau. Such bureaus are usually operated by automobile clubs exclusively. It happens, however, that until two or three years ago we had no automobile club and this service naturally fell to the lot of the Chamber of Commerce. Inquiries at this bureau are steady throughout the year, but from early spring until late in the fall they run from 150 to as high as 500 a day. This represents the passage of automobiles north and south via our Mississippi River bridges. My own trips by automobile all over the country at various times in the past 10 years have indicated to me the great growth and development of this business. To the travellers, of course, it is not a business. It is usually called a pleasure.

Considering it as a business, however, it is strange that only a few cities appreciate the value of this traffic sufficiently to invest their money in its development. The reason for this, no doubt, is that it is hard to trace the tourist dollar. We are able to prove its existence only by logic—that is to say, if an automobile containing four persons arrives at a city, remaining for 24 hours, its occupants must purchase meals, lodging, oil and gas, automobile stores and some slight renewal of their traveling costumes. We are unable to say who gets this money originally and into how many channels of trade it finally passes. The tourist dollar is not a direct dollar. For that matter, neither is the convention dollar. We know that last year we entertained 177 conventions in Memphis, and it is easy to demonstrate to any business man who travels that these folks must have spent at least \$15 a day in the city for ordinary purposes. We estimate that these conventions leave from \$3,000,000 to \$5,000,000 in Memphis, but we cannot prove who gets the money. There are many of our business men who realize they must have se-

cured part of it, but they have no means of knowing how much, and their contributions to support our convention-getting machinery are necessarily without a definite basis. Still, in Memphis, we have enough persons who at least imagine they have an interest in the business to raise a sufficient fund each year to carry on our work.

Personally, I think the convention business is the most important business transacted through any chamber of commerce, at least in so far as the South is concerned. These conventions bring thousands of visitors annually from every part of the country. They bring them into new scenes, where they receive new impressions, and they remain long enough for impressions to "set." Memphis is a city which in six years has taken on the aspect of a metropolis. It looks modern and is modern. It is representative of progress in the South. No one who attends conventions here and observes this progress will be other than a booster for the South after he goes away. We can directly trace a number of new citizens, several sales agencies and at least a few industries to our convention visitors.

R. E. LOGSDON, Director.

Rose Growing in Texas Crop Diversification.

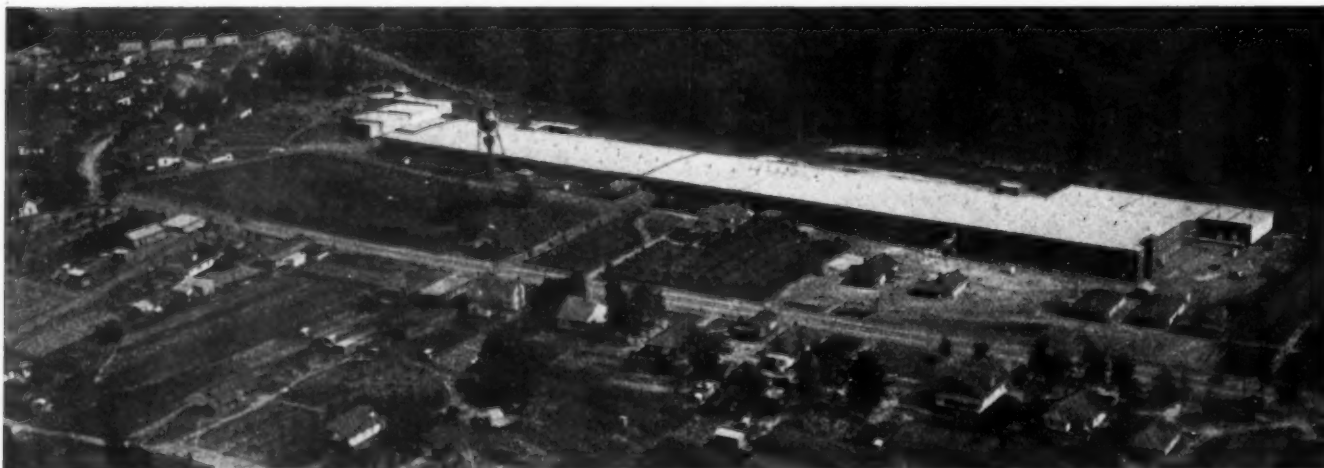
Urgent recommendation for crop diversification for the protection of the prosperity of Smith county, Texas, was broadcast by a convention at Tyler of bankers and credit men of the county. One instance of successful diversification in Smith county is shown in a letter to the MANUFACTURERS RECORD from Gus F. Taylor, president of the Citizens National Bank, Tyler, who speaks of an enormous rose growing and distributing enterprise in the county. He writes that Tyler ships approximately 40 carloads of roses each year, about 25,000 plants to a car, most of the stock going to New York and New Jersey. The rose plant crop is sold on a contract basis, a year or so in advance, and the plants are graded according to the standard of the American Association of Nurserymen. There is a "solid, recognized market" for Tyler roses and rose growing is a recognized industry in Smith county.

But Mr. Taylor warns against undue enthusiasm and says:

"Stirred by the report of some experienced grower who has 'made \$1000 on an acre,' many people decide to take a fling at 'couple of acres,' not having dreamed of the expense involved or the store of specialized knowledge necessary to success. The obstacles encountered often cause them to quit the business after the first harvest, very much disillusioned as to the financial returns."

Smith county has a prize winning record of 16 bales of cotton on five acres of reclaimed land.

New Plant of Boger & Crawford at Lincolnton, N. C.



This mill, completed recently for spinning high-grade yarns for mercerizing, is housed in a structure 106 by 1000 feet, erected by company forces and equipped by Whitin Machine Works, Whitinsville, Mass., and Saco-Lowell Shops, Boston, Mass.

Merchandising of Farm Products and the Florida Citrus Industry.

By BURDETTE G. LEWIS, Vice-President, J. C. Penney-Gwinn Corporation, and in Charge of Its Florida Properties.

"Food products sold by American farmers in 1922 brought 21 per cent above pre-war prices, but this food was purchased by consumers in cities at retail prices that were 50 per cent above pre-war. In June, 1927, food sold by American farmers brought 49 per cent above pre-war prices, but retailed at 72 per cent above pre-war in American cities," said a report on the agricultural situation by a special committee of the Association of Land Grant Colleges and Universities to the annual convention of that association in Chicago, last November. The report goes on to state: "The cost of living was 73 per cent above pre-war. Thus retail prices of food were, relatively, almost as high as were the prices of other commodities that enter into the cost of living. If farmers receive as large a share of the retail price as they did before the war, the general level of farm prices would approach the level of the prices of other items in the cost of living."

One of the ablest members of the present Federal Government, after an exhaustive study by his department of the problem of marketing agricultural products in the United States, recently suggested the following as the necessary remedies for the poor merchandising of farm products, especially Florida citrus fruits:

"1. Pass and enforce rigid statutes establishing standard pack and grades and eliminating from the market all green, frozen, arsenated and bad fruit.

"2. Control the flow of the fruit into the market, avoiding gluts today and shortages tomorrow.

"3. Properly organize under the Capper-Volstead law farmers' co-operatives, made up of growers.

"4. Establish clearing houses where growers, shippers and disinterested capitalists can associate with the grower in marketing the fruit. Let the association be such that so-called disinterested capital will counterbalance the exaggerated influences of food speculators. The food speculator can render a legitimate function, but unrestrained speculators are likely to produce confusion, rather than regulation of the flow of the product into the market.

"5. Control the planting, the cultivation and the diseased production of fruit groves by wise, far seeing, common-sense and scientifically conceived measures.

"6. Eliminate useless duplication of machinery in packing, refrigeration and transportation.

"7. Carry on a wide and properly conceived advertising campaign."

It is probable that carrying forward such a program in Florida would result in further developments in some respects somewhat similar to those which have resulted from co-operative marketing and merchandising of California fruits and vegetables. For example, a separate corporation, a subsidiary of the California Sun-Maid Raisin Corporation, has been formed, whose special function is to market Sun-Maid raisins all over the world. In the development of this sales corporation, there have been applied all the modern systems of advertising and merchandising and strategy work which have been developed in marketing automobiles and cleansing soaps over the world.

It has been stated recently by cash buyers and other critics of the California Fruit Exchange that that exchange has carried on an extensive advertising campaign, but has failed properly to merchandise the product. In other words, according to this criticism, the product has been left to sell itself, because of advertising and because of the beautiful appearance of the carefully selected product when it appears upon

the market. The argument of these cash buyers is that, when California products come into sharp competition with properly grown Florida, Alabama, Texas and Louisiana, as well as foreign grown, fruits, the reputation of the sales agents of the California Fruit Exchange will be shown up to be what the critics claim it is, a false one.

Certainly, the tendency of co-operatives to hire expert merchandisers and the competition between co-operative merchandising agents with cash buyers, with corporate agents, such as those developed by the Borden Company in the dairy field and buyers and merchandisers of chain grocery and food stores, indicate that merchandising of fruit and vegetables is becoming a specialty requiring special training, special understanding and extensive experience in dealing with the problems that crop up, not only throughout Continental United States, but also all the related problems that arise in competition between American growers and growers in other countries, whose products compete with the products of American farmers upon a scale never before thought of by American farmers.

As I have pointed out in a previous statement concerning Danish agriculture, the average Danish farmer is in marked contrast to the average American farmer. The Danish farmer realizes that he is engaged in international business of the first rank, which is dependent for its prosperity largely upon the tariff schedules of other nations, upon transportation rates and service upon land and sea, upon the condition of agriculture in other countries, upon a degree of knowledge and skill and upon a spirit of co-operation characterizing the average Danish farmer. Could any picture be more in striking contrast to the American farmer than that?

Danish agriculture is highly industrialized and up-to-date. Danish farmers have as high average ability and technical understanding of their business as have the highly skilled operatives of some of our largest industrial and manufacturing establishments in America. Their high average of ability and skill is in marked contrast with the wide variation of ability and skill characterizing the American farmer.

In order to meet the wide differentiation between the Danish farmer and the American farmer, for some time to come it will probably be imperative that the members of American growers' co-operatives clearly keep in mind that they are not salesmen and they are not in a position to control sales agents as carefully and accurately as smaller associations in Denmark. This does not mean, however, that they should become the prey of the unscrupulous speculator; neither should they fear that men experienced in the development of co-operative methods, such as J. C. Penney or A. W. Milburn of the Borden Company, are going to betray their interests to the unscrupulous speculator. Such men and their associates offer the only satisfactory and safe way for the Florida grower to escape from the deficiencies of his own agricultural situation, on the one hand, or the dangers of the unscrupulous speculator, on the other hand. Neither should they allow themselves to take unreasonable stands against the legitimate functions of the cash buyer, who often has come into the market to steady it and to stabilize prices at times when the co-operatives have not had sufficient cash or credit to enable the farmer to tide over his lean periods.

It ought easily to be possible to establish in Florida such a community of co-operation between growers, far-seeing capitalists, cash buyers and independent producers, so that the program outlined above by the wise Federal administrator

could be carried into effect for the benefit of Florida growers, for it is becoming more and more apparent to the wiser and more experienced managers of great bodies of capital invested in Florida that the small grower must become prosperous in order that the railroads, steamship companies, bankers, retail stores, power and light companies, street railway, bus and automobile agencies may prosper.

It is quite apparent that local prosperity arises through spending of the local dollar, which functions at least 19 times in the local community before it reaches a more permanent resting place for the time being.

Reports of fluctuation of citrus fruits in the principal city markets indicate a spread varying from \$1 to \$8 per box. What means prosperity to the few in this price means loss and eventual ruin to the many who are below the margin of any profit. Stabilization and elimination of the wide fluctuations are immediate, pressing demands in the Florida citrus industry. What is true of citrus is also true of every agricultural crop marketed from Florida.

\$700,000 Oklahoma Gas Building Completed.

Construction on a \$700,000 building in Oklahoma City for the Oklahoma Gas and Electric Company has been completed, the structure being six stories with a foundation to support six additional stories. The frame is of steel with reinforced concrete joists and slabs, the exterior of two fronts being in buff limestone; the other two elevations are of face brick.



THE NEW BUILDING AT OKLAHOMA CITY.

Pink Tennessee marble has been used in the interior with dark Tennessee marble base and trim. Corridor floors from the second story up are in rubber tile, and millwork for the first story and certain offices on the second and fifth floors is of American walnut. Birch has been used for the remainder of the building. Special type double hung, metal windows have been installed, the glass on the north and east fronts being of polished plate and on the west and south of polished plate wire in the lower sash and ribbed wire in the upper. Layton, Hicks & Forsyth are the architects and J. H. Frederickson & Co., general contractors, both of Oklahoma City. Principal sub-contractors include:

Acoustical treatment—Johns-Manville Corporation, Chicago.
Granite—Cold Spring Granite Company, Cold Spring, Minn.
Limestone—Indiana Limestone Company, Bedford, Ind.
Mail chute—Cutler Mail Chute Company, Rochester, N. Y.
Mineral wool insulation—Banner Rock Products Company, Alexandria, Ind.
Ornamental iron—Mississippi Valley Structural Steel Company, St. Louis.
Plaster ornaments—Industrial Art Company, St. Louis.
Reinforcing steel—Concrete Engineering Company, Kansas City, Mo.
Rubber tile floors—David E. Kennedy, Inc., Chicago.
Structural steel, erected—Pittsburgh-Des Moines Steel Company, Des Moines, Ia.
Vitrolite—Vitrolite Contracting Company, Kansas City, Mo.

\$20,000,000 FOR PUBLIC IMPROVEMENTS IN DALLAS.

Vast City and County Projects to Be Undertaken This Year.

Dallas, Tex.—More than \$20,000,000 will be expended for public improvements in Dallas and Dallas County during 1928, for which bonds have been authorized. The county has recently voted \$6,950,000 for road construction and \$6,500,000 for river and levee improvements, the latter contemplating straightening the Trinity River through Dallas and reclaiming for industrial use some 11,500 acres in the heart of the city. The entire course of the river will be changed and what is now the river bed in a few months will be transformed into industrial sites.

With a road system that is already among the best county systems in the State, consisting of more than 400 miles of hard-surfaced highways, the present bond issue will be used for building new roads in Dallas County and for repairing existing ones. One of the biggest items contemplates a highway from Dallas to Northwest Texas to cost \$2,373,030, of which the county's portion will be \$1,300,000.

To carry out a 9-year program of civic improvements, the City of Dallas a few weeks ago voted to expend in that period \$23,900,000 from the sale of municipal bonds. Of this amount, more than \$5,000,000 will be expended in 1928 to pay for Love aviation field, for street construction and to modernize the city's water system so that full advantage may be taken of the new \$5,000,000 reservoir.

In addition to these major projects, construction will begin in July on a new \$1,250,000 postoffice and a campaign is now on for a \$1,000,000 Y. M. C. A. building, while construction is under way on a \$1,000,000, 17-story annex to the Medical Arts Building and the first unit of a \$5,000,000 Southwestern Bell Telephone building, of 20 stories to cost \$2,700,000, is nearing completion.

Has Faith in Florida.

Faith in the present and future of Florida and particularly central Florida is expressed in a letter to the MANUFACTURERS RECORD from C. D. Philbrick of the industrial development department of W. S. Barstow & Co., Inc., managers of public utilities, New York and Reading, Pa., who has just made a visit to that State. First speaking of the large vegetable shipments and the good prices received, the fine hotel patronage and the soundness of real estate conditions, Mr. Philbrick voices interest in "the development of by-products from the citrus industry."

"Practically all the cities are striving for small industries in order to give employment to the people," Mr. Philbrick adds. "This is an excellent sign; they are rapidly getting down to earth and are ambitious to develop their communities in sound manner. We have great faith in the future of central Florida and I think you agree that we have reason to be optimistic."

The Florida Public Service Company, a subsidiary of the General Gas & Electric Corporation, a Barstow enterprise, has expended about \$13,000,000 in four years for additions and improvements, Mr. Philbrick says, and recently put into commission a new 15,000 K. W. station at Avon Park.

Rice Millers Organize.

Jennings, La.—Rice millers of Arkansas, Louisiana and Texas have organized the National Rice Association with Frank A. Godchaux, Abbeville, La., president; J. Alton Foster, Lake Charles, La., treasurer, and E. S. Shoaf, Jennings, secretary. The organization will have a vice president from each state.

PREDICTS DOUBLE DECKING OF RAILWAY FACILITIES.

Engineer Also Declares Existing Rail Lines Will Be Intensively Developed.

Chicago, Ill.—To meet the steadily growing traffic and the high cost of expansion, particularly in the larger cities, double-decking and probably triple-decking of railway facilities is a possibility of the future, D. J. Brumley, chief engineer, Chicago Terminal Improvements of the Illinois Central Railroad, told the joint meeting of the American Railway Engineering Association, of which he is president, and the Engineering Division of the American Railway Association at its recent meeting here. Mr. Brumley said:

"The railways are susceptible of great improvement, such as reduction of grades, multiple tracking, elimination of curvature, construction of diversion lines around congested centers, shortening of lines and the extension and use of block signals. It will be found that where property values are high and the acquisition of additional land is prohibitive, double-decking and probably triple-decking of railway facilities will be found economical. Such improvements will, however, be quite costly and will not be undertaken unless the analyses of savings in operating cost to be offset by interest on additional improvements will show resultant economy. Electrification no doubt will be extended since it has great operating advantages over steam under given conditions, such as density of traffic, heavy grades, feasibility of operation in congested terminals, a commutation service where frequent stops are made and operation under covered areas where air right developments are justified. The steam locomotive, or some other form of self-contained unit, for many purposes has operating advantages, and the immediate future at least has many possibilities for its improvement and the development of internal combustion and storage battery locomotives.

"The growth of urban communities has consistently followed the establishment of rail transportation lines. The rail line which was once at the outer edge of the municipality is now in the congested center of the city. The terminal facilities which amply supplied the transportation needs a generation ago must be moved farther away where there is available space unrestricted by highways. Much of the work of the members of this organization in the future will deal with problems more concerned with economic phases and betterment of existing lines rather than the construction of railroads into unoccupied territory."

Texas Lumber Men Active.

Houston, Texas, April 14—[Special.]—Provision for a protective tariff for the cement industry, advocacy of the use of cotton instead of jute as bagging for cement and for cotton bales, and attraction of outside capital for investment in Texas were three major subjects considered by the Texas Lumbermen's Association and the Texas Lumber Yard Retail Dealers Association in their conventions, held simultaneously, here this week.

In emphasizing the fact that great and growing importations of foreign cement injure the cement business in America and threaten reduced wages and reduced employment for American workers, the resolution for a protective tariff added that cement mills have an investment of approximately \$18,000,000 in Texas and an annual payroll of about \$2,500,000; also, that they purchase annually, in Texas, fuel oil and gas to a total of \$1,500,000, cotton sacks valued at \$275,000, electric energy amounting to \$800,000 and a great amount of raw materials. Copies of the resolution are to be sent to each member of Congress from Texas.

The sacking of cotton, and also of cement in cotton, it was felt, would go far toward stabilizing the cotton industry in the South.

"Heavy movements in the stock and bond markets," said G. H. Zimmerman of Houston, "with reduction of the yield on the issues, has set the eyes of Eastern capital looking for investments carrying greater profit. There is no more prof-

itable investment than homesteads. We should have a committee to work with loan companies and to get in touch with outside capital, to the end of bringing vast sums of money to Texas. Let us bring outside money here."

In the unavoidable absence of John H. Kirby, the address of welcome to the lumber men was delivered by J. W. Link, vice-president and general manager of the Kirby Lumber Company.

North Carolina and Alabama Sell \$17,500,000 Bonds.

Governor A. W. McLean and State Treasurer Ben R. Lacy, acting for the State of North Carolina, have completed negotiations with a syndicate headed by the First National Bank of New York for the purchase of \$7,100,000 of bonds at a premium of \$101, with an option on \$5,400,000 additional. The State's offering consisted of \$10,000,000 4½ per cent highway bonds and \$2,500,000 4 per cent school bonds. A group composed of Ward-Sterne & Company, Birmingham and Montgomery; Marx & Company, Birmingham, and Caldwell & Company, Nashville, Tenn., have purchased \$5,000,000 4½ per cent Alabama highway bonds, at par, accrued interest and premium of \$93,953, the purchasers reserving the right to absorb the premium by having a sufficient number of 4 per cent bonds issued. On this basis, it is said \$2,800,000 would be issued at 4 per cent and \$2,200,000 at 4½ per cent.

Seaboard Air Line in 1928.

In analysis of the business of the Seaboard Air Line for 1928, L. R. Powell, president, says that in March the transportation ratio was slightly over 36 per cent, compared with over 39 per cent last year, largely due to economies which will increase as time goes on. Fifty thousand dollars a month is to be saved in operation of the "Orange Blossom Special." The company had the largest fertilizer movement in 1928 in its history, said Mr. Powell, and he understands that the fruit crop in the Carolinas and Georgia is likely to prove the largest on record. Preliminary figures for March show a surplus, after fixed charges, before adjustment bond interest, of something over \$300,000, although gross revenues were \$500,000 less than for the same month last year, when they were \$6,060,066.

\$1,250,000 Machinery Ordered for Power Project.

Mount Holly, N. C.—The Duke Power Company, Charlotte, has awarded contract to the Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., at more than \$1,250,000, for steam turbine generating equipment for its big development at River Bend on the Catawba River near Mount Holly. The first unit of the equipment will be delivered April 1, 1929, and the second a month later, it is said, the two units to be capable of producing 186,000 horsepower. Ultimate plans provide for the production of more than 600,000 horsepower.

Contracts for \$470,000 Fort Bragg Construction.

Fort Bragg, N. C.—General contract has been awarded by the Constructing Quartermaster here to W. P. Rose, Goldsboro, N. C., for the erection of two field artillery battalion barracks at \$365,850. W. T. Gregory of Norfolk, Va., was awarded contract at \$113,919, for the construction of six company officers' quarters and seven non-commissioned officers' quarters.

City Commission, Shreveport, La., has awarded contract at \$359,470, to K. C. Wilson of Shreveport, to construct the Market street viaduct.

Road Work Expedited and Costs Kept Down by Use of Power Machinery.

By F. H. MANN, Assistant Chief Engineer, Iowa State Highway Commission.

Complete motorization of almost all types of road building machinery is the outstanding development which has taken place in highway construction equipment in the past few years. The wheelbarrow and the shovel have given way to the motor truck at the front of the paving mixer. The 18 to 20 and even 30 horse teams have given place to the irresistible 10 to 15 ton "cat." The wheel scraper outfit and the fresno promise soon to go into the discard, in Iowa at least, before the gasoline motor driven draglines and the steel "mule."

Second only to the motorization of road building machinery is the increase in size and capacity of the various pieces of equipment used in all road building operations. The increase in size has been made possible by the motorization of the equipment and made necessary by the tremendous demands made by the motor vehicle upon road builders each succeeding year for greater and still greater mileages of road. The old three to five bag mixer has given way to huge affairs that stow away in their capacious mouths batches that a few years ago

would have taxed the handling capacity of entire shovel and wheelbarrow crews, or the early day trucks that were used to haul material to primitive mixers.

Four hundred feet of 18-foot concrete road surfacing used to be a day's record, which was a mark at which to marvel. Today, any good road building outfit must be capable, on demand, of laying 1000 feet in a single 10-hour day, and only a record of 1500 to 1800 feet excites more than passing notice. The old bag mixer has given way to heavy machines, capable of laying 100 feet of 18-foot pavement per hour, and keep it up. Heavy traveling cranes for unloading aggregates, steel bins for proportioning and light, fast trucks for hauling have long since taken the place of the old wheelbarrow and shovel methods and the times when the materials were delivered to the mixer by horse-drawn vehicles.

Some States have abandoned the practice of volumetric proportioning and are now weighing aggregates. Many refinements unheard of and unthought of until a few years ago have been added to

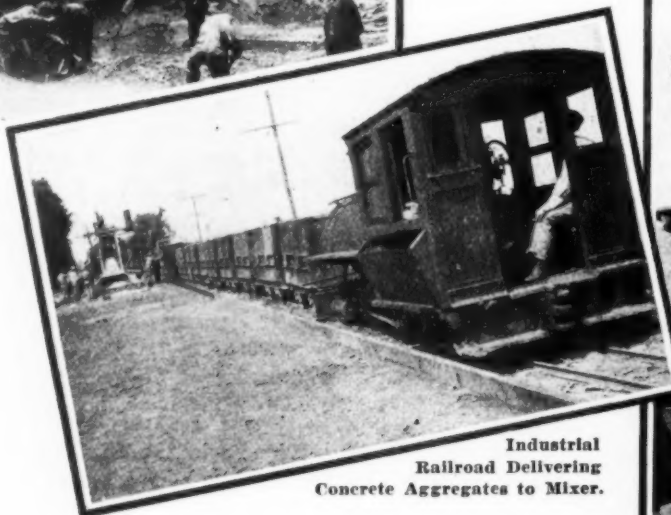
the pavers' equipment. Heavy metal forms capable of supporting heavy loads have taken the place of the old wooden forms. Power-drawn subgrading machines traveling on these forms prepare the subgrade to a refinement unknown in former years. Mixers equipped with automatic water control and timing devices are in common use. Many States now require a heavy subgrading template equipped with adjustable cutting blades, drawn by the mixer which, when properly handled, prepares an absolutely correct subgrade just ahead of the placing of the concrete. Finishing and tamping machines, power driven, have taken the place of the old hand-tamping devices. These, together with longitudinal floats operated from parallel bridges, have made it possible to produce surfaces almost 100 per cent perfect.

Methods of curing the concrete slab, after placing, are changing. In some States, one rarely sees concrete cured by the good old-fashioned method of earth and water. Calcium chloride, used either as an admixture with the aggregates or spread over the finished surface, is quite commonly used. Automatic devices have been installed on mixers for incorporating calcium chloride with the mix, and neat devices for the uniform spreading of calcium chloride when the surface treatment is used.

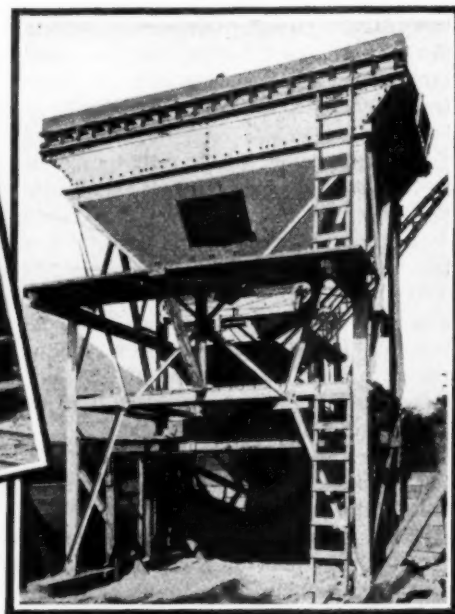
A few years ago, a paving contractor considered five miles of 18-foot highway



Portable Asphalt Mixing Plant.



Industrial Railroad Delivering Concrete Aggregates to Mixer.



Weighing Derrick for Proportioning by Weight.

paving a comfortable season's run. Today, there are many outfits equipped with Twenty-seven E pavers laying as much as 20 miles in one season.

Years ago, a five-mile highway grading job was considered quite a momentous affair, and it really was. The work was done largely with the old-fashioned slip and wheeler, now almost obsolete on highway work. Today, in this State, we are letting contracts of from five to fifty miles in length, where vast

line has been steadily growing in popularity, especially where heavy fills are made from side borrow or where the fills are across low, wet ground. In the past year, the steel mule has been born and is now being used to very good advantage to haul excavated material from both the dragline and elevating grader. This steel mule is nothing more than a Fordson tractor equipped with a steel dump body, the wheels having dual treads, or double rims. Its operation

until today there are almost as many types of drags as there are different makers of machinery. These vary from the two-horse, two-blade steel drags to the heavy 16-foot blades drawn in tandem by 10-ton Horts. Shortly after the World War, the Government distributed to the States thousands of heavy trucks and tractors. This act alone has no doubt done more to educate highway builders and maintainers to the use of heavy equipment than any other one thing. In many cases, the heavy trucks are used to pull maintenance equipment; in others, spring blades have been attached beneath the trucks between front and back wheels, making a very mobile piece of equipment capable of covering large mileages of roads. Many companies are putting on the market very popular types of one-man power maintainers at costs within the reach of all.

Pages could be written about the types and new inventions. Perhaps, the greatest advance in maintenance machinery has been made in connection with snow removal. Not only are heavy blade graders, power-drawn, used, but also during the past few years powerful snow plows, built around heavy caterpillar tractors, which compare favorably in performance with those used on railroads. A few years ago, little attempt was made to keep roads open for the motorist during the winter months. In most of the Northern States, snow removal constitutes one of the most important duties of the maintenance man.

No other industry has multiplied and pyramided like the highway industry. There is no attempt made here to show the advance made in highway construction in the past 15 years, but suffice to say it is enormous and that progress and advancement have been by leaps and bounds. Under these conditions, it is only natural that road building and road maintaining equipment should show such marked changes and such increased efficiency in operation.



Practically Every Operation in Concrete Road Construction Is Now Done Mechanically.

quantities of excavation are moved, averaging during the past years almost 20,000 yards per mile. Tractor-drawn elevating graders, steam shovels and draglines have taken the place of these almost obsolete tools.

The most popular equipment for earthwork today is the tractor-drawn elevating grader. Until a few years ago, these graders were drawn by from 16 to 18 head of stock, but this stock has been replaced by the 10-ton "cat"—some jobs with tractor drawn wagons. Some jobs of elevating grader work are completely motorized, not only is the grader itself pulled by a "cat," but also the dump wagons. Ten-yard dump wagons tractor-drawn are commonly seen in use on Iowa road construction.

During the past few years, the drag-

line has been steadily growing in popularity, especially where heavy fills are made from side borrow or where the fills are across low, wet ground. In the past year, the steel mule has been born and is now being used to very good advantage to haul excavated material from both the dragline and elevating grader. This steel mule is nothing more than a Fordson tractor equipped with a steel dump body, the wheels having dual treads, or double rims. Its operation

Changes in types of maintenance equipment are even more radical than in construction. Years ago, a man from Missouri, named King, made what was known as the King Drag, which in reality was nothing more than a log split in two, the two pieces set on end, held about 2½ feet apart by cross braces, with a hitch for a team of horses. This split log drag soon gave way to other types,



A. Gravel Crushing and Screening Plant. With Such Equipment Excellent Roads Can Be Built From Gravel Deposits That Could not Otherwise Be Used.



Three Men Can Keep This Outfit Going Steadily, Accomplishing in One Day Work That Would Take a Gang of Men With Teams and Plows Several Days to Do.

IRON, STEEL AND METAL MARKET

Pittsburgh Steel Market.

Pittsburgh, April 16—[Special.]—The steel trade shows decidedly more favorable conditions than does business in general. All told, the steel industry is in somewhat better shape than on this date in any previous year, as to production and shipments in the year to date and as to the current pace, while as to prices although they are lower than in some other years they are stiffer than in the last quarter of the old year, whereas in various other years they were showing some weakening at this time. Steel producers are, however, taking a very conservative view of the course of affairs in the next few months, having in mind the point that other trades are not, on the whole, making as favorable a showing as their own, also the point that a serious break in the stock market, or political uncertainties this summer, may have an unfavorable influence.

Steel ingot production gained 3.2 per cent in March over the February rate and fell only a trifle short of that in March, 1927, the record month of all time. Production January 1 to date has made a new high record for the period. Apart from this showing of accomplishment there is the fact that production is quite fully sustained this month, whereas last year and year before there was a 5 per cent decrease from March to April and in the two preceding years a much greater decrease.

By no means did the Steel Corporation's March decrease of 62,983 tons in unfilled obligations make an unfavorable showing, for the season must be allowed for, also the large accumulation up to March 1. For several years unfilled tonnage increased sharply in the last three months of the year, but in 1926 and 1927 January and February brought decreases, while this year they brought substantial increases, the decrease beginning only in March and being small at that. The unfilled obligations at the beginning of this month were 782,066 tons more than those of one year previous.

Some of the recent steel price trends have seemed unfavorable to producers, but such weakening as has occurred has been from prices advanced in the past few months, those advances never having become the full invoice prices as old contracts and orders were being filled. Prices are all as high as in the fourth quarter of last year, or higher. Thus while bars, shapes and plates were advanced, nominally, to 1.90c and the market is now only 1.85c it seems to be firm at that level, against 1.75c in the fourth quarter. A break has just occurred in automobile sheets, from 4.15c to 4.00c, the break being notable as it is attributed to one seller weakening, rather than to buyers exerting pressure. The mills have merely lost a recent advance, on which no large tonnage was sold, as first quarter business generally was at 4.00c. Black sheets are a trifle easier, being quotable at 2.75c to 2.90c against 2.80c to 2.90c formerly, but galvanized sheets remain at 3.65c to 3.75c.

Apparently the pipe mills proceeded rather firmly with their 5 per cent advance on standard steel pipe, reported a week ago, since the general practice was to cover customers only for 30 days' shipments, specifications to be filed within five days.

The Chicago, Milwaukee, St. Paul & Pacific has ordered 4500 freight cars, representing the heaviest car buying in two months. The total since the first of the year is somewhat meager, but there is no room for much loss since last year was a light year.

The pig iron markets remain rather quiet, with prices unchanged. Mill buying of scrap is very light but there is such pressure for deliveries on short contracts that dealers are paying higher prices to cover.

Birmingham Iron Market.

Birmingham, Ala., April 16—[Special.]—The fact that there is no change in the manner of buying or in the base price is not considered cause for pessimism by observers of the pig iron market in this section. Sales continue in small lots with instructions for delivery which about equal the make or a little better. Surplus stock of foundry iron will amply care for the excess delivery and the make can be held down to a reasonable margin. Seventeen blast furnaces are manufacturing pig iron in this district, eight on foundry, seven on basic and two on special brand iron. The furnaces are not being pushed for records although one of the Republic Iron & Steel Company's Thomas furnaces is boasting of an output one day of 500 tons. Stove foundries have been taking small tonnages of foundry iron right along and other shops are doing well. There is improved shipment of cast iron pressure pipe though production has not been increased materially. Several of the pipe shop yards are being cleared of surplus stock. A few specifications have come to light recently and lettings have been reported received. Pressure pipe base price is holding firm on the \$30 to \$31 level for six-inch and over sizes.

Seventeen out of 23 of the open hearth furnaces of the district are producing steel and the trade is holding well, everything considered. Small contracts in the immediate territory are giving fabrication shops more or less business. Reeves Bros. Co., fabricators in tanks and tank cars, have started work on their second order for ten 72,000-barrel capacity oil tanks to be shipped into the Texas oil fields. These tanks will be 40 feet high and 120 feet in diameter and will require upwards of 50 cars to carry them to Texas. The plate for the tanks will be supplied by the Tennessee Coal, Iron & Railroad Company. The Reeves Bros. shop here employs around 300 men and has been in operation day and night for some time.

A steady demand for reinforced steel is noted among the several manufacturers of the district, the orders ranging from 25 to 100 and 150 tons each, all of which are filled according to instructions as to delivery. Other shapes of steel are in fairly good demand, including wire and nails.

Alabama records for pig iron production so far this year are fairly good and indications now are that the aggregate of 1927, 2,782,993 tons, will be repeated if not bettered. For the first three months the State has produced 653,208 tons of iron of all kinds and as the demand improves this output will, of course, be increased.

The coal mining industry is still a little sluggish but compared to the past conditions are fairly good. The coke market holds fairly well with a little foundry coke moving into larger centers still, even above the Ohio river gateway. The base price is \$5 per ton, foundry coke. There is demand for other by-products. Scrap iron and steel is holding steady with little change for the better in quotations. Heavy melting steel is selling at \$10.75.

Pig iron and iron and steel scrap quotations follow:

PIG-IRON.	
No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnace, \$16.00;	
No. 1 foundry, 2.25 to 2.75 per cent silicon, \$16.50; iron of 2.75 to 3.25 per cent silicon, \$17.00; iron of 3.25 to 3.75 per cent silicon, \$17.50; charcoal iron, f. o. b. furnace, \$29.00.	
OLD MATERIAL.	
Old steel axles	\$16.00 to \$17.00
Old iron axles	16.00 to 17.00
Old steel rails	11.50 to 12.00
Heavy melting steel	10.75 to 11.00
No. 1 cast	14.00 to 14.50
Stove plate	13.00 to 14.00
No. 1 railroad wrought	11.50 to 12.00
Old car wheels	14.50 to 15.00
Old tramcar wheels	14.50 to 15.50
Machine-shop turnings	8.00 to 9.00
Cast-iron borings	8.00 to 9.00
Cast-iron borings (chem.)	13.00 to 13.50

The Metal Market.

New York, April 16—[Special.]—The metal markets have been resting the past week from the extreme activity of late March and early April. For the most part prices are firm during the present relative dullness which gives hopes to the producers of higher levels once buying gets into full swing again.

The continued good reports from the steel industry give encouragement to the non-ferrous metal producers since both steel and metals are used side by side in many consuming lines.

Metal shares were conspicuous in the advances on the New York Stock Exchange during the week, though some of this action was admittedly due to pools, yet some no doubt was due to better sentiment in the metals industry. All metals are now selling at prices well above the low water marks of the year.

Antimony, which sagged to a new low for the past several months when it hit 9½¢ per pound has come back to 10¢ or higher. The precious metals are steady and strong with the exception of platinum which has yielded \$1 to \$3 per ounce, depending on the iridium content.

The outstanding metal news of the week, outside of the markets, was the announcement of a merger of the Phelps Dodge Corporation, Calumet & Arizona Mining Co., New Cornelia Copper Co. and Nichols Copper Co. This combination is to erect a new refinery some place in the Southwest and will meanwhile use the refinery of the Nichols Copper Co. at Laurel Hill, Long Island. It will take two years, however, to complete a new refinery. Sales of the new corporation will be handled through a combination known as the Phelps Dodge Selling Agency, which will sell in ratio to the production of the constituent companies, this being the scheme in effect with the copper export association. Heretofore three of these companies had their copper "custom" refined.

A lead company official connected with the proposed Lead Institute stated recently that it would be at least another month before plans take definite shape. In the steel industry the latest trade association is the Wrought Iron Research Association.

Higher prices for copper are evidently stimulating the production. Mine production in the United States in March was 70,172 tons as against 67,423 tons in February. Production of refined copper in North and South America came to 128,972 tons compared with 124,848 tons in February. Stocks of refined copper gained slightly in March, standing at 87,292 tons at the end of the month as against 86,932 tons at the beginning. However stocks of both blister and refined copper fell last month for the two Americas, standing at 329,813 tons at the close as against 334,461 tons at the beginning.

Slab zinc statistics for March were somewhat unfavorable since there was a gain in surplus stocks at a time that curtailment of operations was being reported. The gain was small however at 239 tons. The statistics came out on Wednesday and immediately the price of zinc fell \$1 per ton or to 5.70¢ per pound, East St. Louis.

The Easter holidays were responsible for much dullness. Good selling of copper for export was not resumed until Wednesday and all week sales were lighter than for the preceding period. The domestic copper market was stagnant. Large producers held to 14¼¢ per pound, but reports from Connecticut told of selling offers at 14.17½¢.

Lead prices are unchanged at 6.10¢ per pound, New York, and 6¢ East St. Louis. Premiums in the outside market have about disappeared. Quietness is expected over the next two weeks. Tin was down to 51½¢ by the middle of the week as against 54¢ two weeks previous. Lower prices brought forth heavy purchasing at the middle of the week.

TEXTILE

\$10,000,000 Rayon Plant for Covington, Va.

Covington, Va.—The Industrial Rayon Corporation of Cleveland, Ohio, announces that it will construct a plant here at an initial cost of more than \$10,000,000, to employ more than 2000 operatives. It will be built at the junction of Jackson River and Potts Creek and will have an initial capacity of 6,000,000 pounds of rayon per year. Housing facilities for employes will be provided by local interests at a cost of \$1,000,000 and it is understood that Robert H. Angell of Roanoke will handle details of this phase of the development. J. E. Sirrine & Company of Greenville, S. C., are engineers for the mill.

Warehouse for Crown Cotton Mills.

Dalton, Ga.—The Crown Cotton Mills have plans by Robert & Company, Inc., Atlanta, for a four-story and basement, two-compartment warehouse of 40,000 square feet of floor space. It will be 107x105 feet, of reinforced concrete, tile wall coping, structural steel beams and lintels and cast iron columns. Sam N. Hodges of Atlanta is the contractor. Sub-contracts have been awarded as follows:

Brick—Dalton Brick and Tile Company, Dalton, Ga.
Cast iron columns—Paul Wright & Co., Birmingham, Ala.
Lumber—Pine Plume Lumber Company, Montgomery, Ala.
Structural steel and miscellaneous iron—F. E. Gollan Company, Atlanta.

Hartsville Bleachery Contract Awarded.

Hartsville, S. C.—The Hartsville Bleachery, Inc., has awarded contract to A. K. Adams & Company, Inc., Atlanta, for the construction of its plant, which is expected to be ready for operation by September 1. The mill building will be 800 by 80 feet, one and two stories and basement, of concrete, brick and steel, to be equipped for finishing and dyeing cotton piece goods and rayon goods. An investment of \$500,000 will be involved. Robert & Company, Inc., of Atlanta, are the engineers.

Bosson Hosiery Mills to Build Plant.

Bosson Hosiery Mills, Inc., Asheboro, N. C., with a New York office at 88 Franklin street, have plans by Lockwood, Greene & Company, Inc., Charlotte, for a hosiery mill at Asheboro, the building to be one story, of saw-tooth construction. There will be another building for a dye-house and boiler room, the total floor space to be about 13,000 square feet. The Owen Construction Company, Greensboro, N. C., is the contractor.

Contracts for Pepperell Mill Extension.

Opelika, Ala.—Contract was recently awarded to the Batson-Cook Company, Inc., of West Point, Ga., for a 1-story, 84 by 137-foot extension to the mill of the Pepperell Manufacturing Company. The Interstate Roofing and Foundry Company of Anniston, Ala., is handling roofing, sheet metal, tar and concrete work, while steel sash has been furnished by David Lupton's Sons Company, Atlanta and Philadelphia. F. P. Sheldon & Son, Providence, R. I., are the engineers.

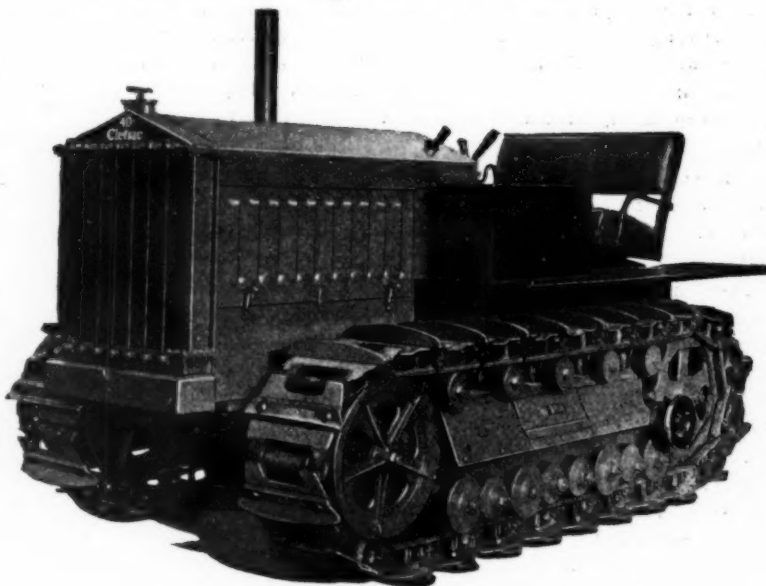
Draper Mill at Rocky Mount, N. C., Operating.

Rocky Mount, N. C.—The mill recently acquired here by W. H. Draper & Sons Company, Troy, N. Y., is now fully equipped and in production for the manufacture of cotton clothes line and sash cord. Lockwood, Greene & Company, Inc., Boston and New York, were the engineers.

NEW AND IMPROVED EQUIPMENT

Cletrac 40 Added to Line.

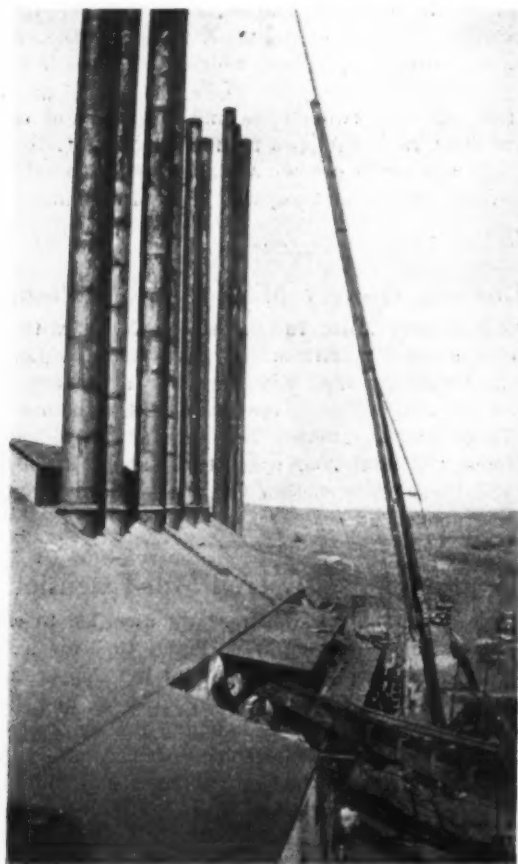
The Cletrac 40, crawler tractor, has been added to the line of the Cleveland Tractor Company, Cleveland, Ohio, which believes the line "now embraces the entire scope of power requirements for building and maintaining roads and for municipal service." Among the specifications of Cletrac 40 are a six-cylinder motor, track shoes 14 inches wide and 10-inch pitch; grouters $2\frac{1}{2}$ inches high and 17 inches wide; 24 carbon steel shoes in each track; length on ground for each track is 80 inches; total tractive surface is 2240 square inches, and ground pressure is 4.5 pounds per square inch. The length over all is 132 inches; width, 69 inches; height, 63 inches; center to center of tracks, 48 inches; clearance at drawbar spring 8 inches, without grouters; turning radius, 11 feet; turning diameter, 22 feet; rating at drawbar, 40 horsepower; at the power pulley, 55 horsepower. Power pulley and takeoff also are available.



CLETRAC 40 HEAVY-DUTY CRAWLER TRACTOR.

Universal Crane Handles Big Boom.

In removing the top 10-foot section of a damaged 110-foot smokestack for the Leyden Coal Company, Denver, the Weicker Transfer and Storage Company recently applied their Universal crane, a product of the Universal Crane Com-



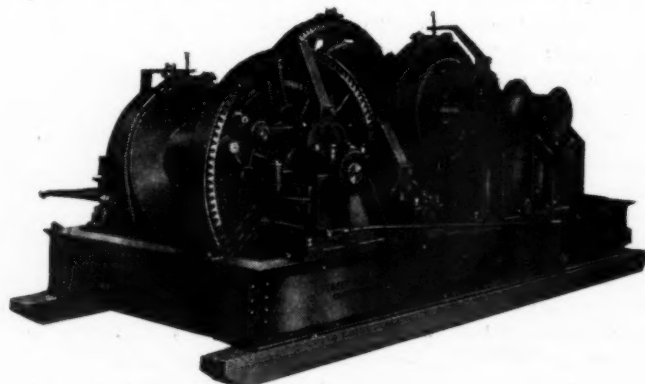
THE CRANE, WITH 119-FOOT BOOM, READY TO REMOVE DAMAGED STACK SECTION.

pany, Cleveland, Ohio. The top section of one of the smokestacks became burned through and hung unsupported, threatening to drop and crash through the smelter roof, and was too weak to support a man on a gatling. A. E. Gallagher,

superintendent for the Weicker Company, suggested the use of their motortruck mounted crane as an economical solution and equipped the crane with a 119-foot boom by lashing a 65-foot timber telephone pole along under the side of the standard 44-foot steel boom on the crane, allowing 35 feet to extend beyond the boom head. Next, a 75-foot timber was placed with the butt end resting against the standard boom head and was securely lashed along the top of the first 35-foot timber extension. The boom hoist guys were fastened back of the boom head and the boom raised into working position; then the boom head was 124 feet above the ground. A man cut the damaged section loose and fastened it to the hoisting line, on which it was slowly lowered to the ground. J. S. Lawson, the crane operator, claims that the 119-foot boom is the longest ever to be used on a truck crane.

Slack Line Excavator Hoist.

Street Bros. Machine Works, Chattanooga, Tenn., manufacturers of hoists, derricks, cableways and slack line excavators, have brought out new designs on two-speed electric or gasoline hoists for slack line excavators which embody the follow-



TWO-SPEED HOIST.

ing features: Bases of structural steel, riveted and welded with gusset plates in corners; large shafts; steel cut gears; improved frictions; well-balanced drums; large brakes. They are intended for heavy duty service where speed and capacity over long spans are essential. The hoists are built in five sizes for handling buckets from $\frac{1}{2}$ -yard to $2\frac{1}{2}$ -yard capacities.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

The date at the end of an item indicates issue of the Manufacturers Record in which earlier facts about the same enterprise were published.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

Airports, Airplane Plants, Etc.

Ala., Tuscaloosa—Aviation Committee of Junior Chamber of Commerce, Luther Maxwell, Jr., Chairman, interested in establishing airport, Columbus Rd., just beyond Northport.

Ark., Conway—Conway Airways Corp. incorporated; Joe T. Shumate, Chas. E. Ramsey; leased 65 acres for airport.

Ark., Little Rock—Arkansas Aircraft Corp., capital \$100,000, incorporated; W. F. Moody, A. O. U. W. Bldg.

Ark., Paragould—West Nash Motors Co., reported, leased 60 acres for airport.

D. C., Washington—Simmons Columbia Aircraft Corp., capital \$100,000, incorporated; Henry Edward Austin, 1940 First St., N. W.

Fla., Miami—Greater Miami Airport Assn., reported, interested in obtaining 2000 acres of bay bottom between Virginia Key and Point View.

La., Baton Rouge—East Baton Rouge Parish, reported, plans voting \$125,000 bonds for airport equipment. See Financial News.

La., Shreveport—Huff-Daland Dusters, Inc., Monroe, plans establishing headquarters to dust crops by airplane; Chamber of Commerce erecting hangar 80x100 ft. and machine shop 40x100 ft., steel, Steere Field.

Md., Hyattsville—Seaboard Airways, Inc., Franklin and Luttrell Sts., incorporated; Robt. E. Funkhouser, T. Howard Duckett, Chas. W. Owings.

N. C., Charlotte—Chamber of Commerce, reported, purchased 215 acres at Camp Greene for airport. 3-29

N. C., Monroe—United Airways of North Carolina, Inc., J. Ray Shute, Jr., Pres., establish airport; erect 50x100-ft. hangar; wood asphalt roof. 4-12

Tenn., Knoxville—City Council, reported, authorized purchase of 115 acres near Gilbert Lane and S. Haven Rd. for municipal airport.

Tex., Galveston—A. J. Peterson, Chmn., Airport Comm., reported, has option on site for municipal airport. 3-1

Tex., Laredo—City, reported, acquired 408 acres for airport; erect hangars and garages.

Tex., San Angelo—City Comm. authorized issuance of \$40,000 in emergency warrants for 250 acre aviation field and \$20,000 for improving field. 3-22

Va., Hampton Roads, Br. of Norfolk—Belmont Iron Works, 22nd St. and Washington Ave., Phila., Pa., reported, has contract for 775 tons struc. steel for naval hangar. 4-5

W. Va., Clarksburg—Chamber of Commerce, reported, interested in airport.

Bridges, Culverts and Viaducts

Proposed Construction

Ala., Epes—War Dept., Washington, reported, approved plans Alabama Great Southern R. R. Co., B. Herman, Ch. Engr., Washington, to reconstruct Tombigbee River Bridge.

Ark., Batesville—War Dept., Washington, reported, approved revised plans Independence County for trestle approach to White River Bridge, Batesville; rein. conc. approach instead of timber structure; 30-ft. instead of 15-ft. spans.

Fla., St. Petersburg—Robinson & Steinman, Consult. Engrs., 117 Liberty St., New York, advise \$5,500,000 Tampa Bay Bridge, St. Petersburg to Piney Point, to be built by Dr. H. Simmonds, Jr., 326 E. Eleventh St., St. Petersburg, and associates awaiting War Dept. permit; 6.8 mi. long, composed of causeways, conc. bridges with draws, steel suspension span. 11-10-1927

Ga., Fitzgerald—E. M. Elliott and Associates, Inc., 360 N. Michigan Blvd., Chicago, Ill., reported, plan \$200,000 conc. toll bridge over Ocmulgee River between Ben Hill and Telfair Counties, Fitzgerald to McRae; erection awaiting Telfair County granting franchise; previously noted Ben Hill granted franchise. 10-27-27

Ga., LaGrange—Comms. of Roads and Revenues, Troup County, Henry Reeves, Clk., receive bids May 7 for 2 bridges: Over Cane Creek, West Point to Chipley, 3013 FBM, timber untreated, 54,855 FBM, timber treated, 18,000 lb. rein. steel, double conc. box culverts, 7696 lb. rein. steel; over Yellow Jacket Creek, Young's Mill to Harrisonville Rd.; 1930 FBM, timber untreated, 36,610 FBM, timber treated, 11,500 lb. rein. steel. 3-1

Kentucky—State Highway Comm. plans 2 bridges. See Roads, Streets, Paving.

La., Baton Rouge—Louisiana Highway Comm., reported, receives bids July 31, to construct, operate and maintain highway traffic bridge, Mississippi River.

La., Natchitoches—Natchitoches Parish Police Jury, W. H. Airey, Pres., reported, receives bids May 7 for 3 bridges: Chopin Bayou, over Cane River, Ward 10; Campti Bayou, Ward 4; Coffee Crossing Bridge over Black River, Ward 2.

Miss., Natchez—Natchez & Vidalia Bridge & Terminal Co., Harry E. Bovay, Pres., 725 Dermon Bldg., Memphis, Tenn., reported, plans receiving bids soon for bridge across Mississippi River, Natchez to Vidalia, La.; Harrington, Howard & Ash, Consult. Engrs., 1012 Baltimore Ave., Kansas City, Mo. 1-26

Mo., Herman—National Toll Bridge Co., capital \$3,200,000, collateral trust bonds, incorporated to acquire existing toll bridges and ferries, and finance, construct and operate new toll bridges and ferries on nationwide scale; J. G. White & Co., Inc., New York, will offer class A. common stocks of company soon; proposes to finance construction through subsidiaries, vehicular toll bridges, over Missouri River, Herman, and at Courtney, Mo., over Ohio River, Madison, Ind.; J. G. White Engineering Corp., engineers for company, supervise designing and construction.

South Carolina—State Highway Comm. receives bids for 6 bridges, culvert, underpass, See Roads, Streets, Paving.

S. C., Charleston—I. M. Bryan, of Industrial Managers, Inc., C. B. Jenkins, Riverland Terrace Co., John McCrady, Civil Engr., Peoples Bldg., reported, organizing as Stono Bridge Co., to build Stono River Toll Bridge, on James Island side, south of Riverland Terrace, connect King's Highway with River Rd., James Island; 1389 ft. creosoted timber structure, 148-ft. steel swing draw span; 18-ft. roadway on bridge and approaches; Sanitary and Drainage Comm. to approve plans for franchise; permission to erect to be granted by Federal government.

Tennessee—Dept. of Highways and Public Works, Nashville, reported, probably let contract in fall for 4 bridges: Wilson-Trousdale Counties—Cumberland River Bridge, Lebanon-Hartsville Rd.; Marion County—over Tennessee River, Jasper-Chattanooga Rd.; Knox County—over Tennessee River, Knoxville-Maryville Rd.; Henry-Stewart Counties—over Tennessee River, Paris-Dover Rd.; Montgomery-Stewart Counties—over Cumberland River, Clarksville-Dover Rd.

Texas—See Roads, Streets, Paving.

Tex., Canadian—State Highway Comm., Austin, reported, increased appropriation, \$10,000 to \$15,000, for Washita Creek Bridge, Hemphill County. 3-8

Tex., Dallas—Dallas County, reported, plans 8 bridges, culverts, underpass. See Roads, Streets, Paving.

Tex., Freeport—E. C. Tobey, Chmn., Navigation and Canal Comms., reported, receives bids May 9 for Brazos River Diversion Channel Bridge; two 183-ft. fixed spans, 250-ft. swing span, center to center of piers, conc. piers, timber piling; all bids submitted to Ch. of Engrs., Washington, for approval, before letting; Harrington, Howard & Ash, Consult. Engrs., 1012 Baltimore Ave., Kansas City. 3-1

Va., Gate City—A. C. Starnes and J. P. Wolenbarger, Supvrs. of Estillville and Taylor Magisterial Dist., reported, receive bids Apr. 28 for 147-ft. conc. Cooper Creek Bridge near Manville; 12 or 16 ft. clear roadway; Gus N. Addington, Clk.

Va., Richmond—State Highway Dept., Richmond, reported, plans widening Bottoms Bridge, Richmond-Newport News Highway.

W. Va., Kanawha Falls—War Dept., Washington, approved revised plans Kanawha Falls Bridge Corp. for Kanawha River Bridge; reduce end spans, 270 to 285 ft.; increase vertical clearances.

W. Va., Point Pleasant—State Road Comm., Charleston, reported, receives bids Apr. 21 for rein. conc. highway Crooked Creek Bridge and approaches, Point Pleasant, on Charleston-Point Pleasant road.

Contracts Awarded

Ga., Atlanta—City, reported, let contract to MacDougald Construction Co., 158½ Spring St., \$703,000, for rein. conc. and steel twin viaducts, Pryor St. and Central Ave.; Shelverton Construction Co. lately noted as low bidder. 4-12

Ga., Folkston—Charleston County Comms., reported, let contract to Bauman & White, \$7500, for Satilla River Toll Bridge, Burntfort. 3-22

Mo., Springfield—W. E. Freeman, Mayor, reported, let contract to Kaw Paving Co., Topeka, Kan., \$15,181, to complete Benton Ave. viaduct; \$16,258 for Grant Ave. viaduct; contract includes paving approaches, building walks, asphalt surfacing roadway.

N. C., Greensboro—City, reported, let contract to Northeastern Construction Co., S. Davie St., \$5250, for North Buffalo Creek Bridge, Vine St. Proximity; 18-ft. driveway, 6-ft. sidewalks; replace wooden structure.

S. C., Charleston—Cooper River Bridge Co., Inc., Chas. R. Allen, V.-P., 148 E. Bay St., let contracts for Cooper River and Town Creek Bridge: Foundation Co., 120 Liberty St., New York, main piers, substructure; McClintic-Marshall Co., Pittsburgh, Pa., steel spans across Cooper River and Town Creek; C. E. Hillyer, Fla. Baptist Bldg., Jacksonville, Fla., substructure approaches; Virginia Bridge & Iron Co., Roanoke, superstructure; total cost, \$5,500,000 to \$5,750,000. 3-29

W. Va., Huntington—City Comms., reported, let contract to James J. Weller & Sons, 202 Elm St., to repair Third Ave. Bridge, Guyandotte River.

Canning and Packing Plants

Fla., Palmetto—Dan Thompson, reported, erect packing plant.

Miss., Utica—M. A. Gioniso, New Orleans, La., reported, interested in tomato cannery.

Tex., Weslaco—Lee Akin, Pharr, reported, erect \$12,000, 2-story, hollow tile canning plant. 4-12

Clayworking Plants

Ark., Benton—Niloak Pottery advises be several weeks before contracts are let for buildings on Hot Springs Highway. 4-12

Tex., San Antonio—J. R. Martin Tile and Brick Co., reported, increased capital, \$75,000 to \$150,000.

Coal Mines and Coke Ovens

Ala., Birmingham—Coal, Coke & Chemical Corp. incorporated; W. O. Arzinger, Crestline Heights.

Ala., Birmingham—Henry Ellen Coal Co. incorporated; W. E. Wilmot, 127 N. 60th St.

W. Va., Mount Clare—Citizens Fuel Co., Uniontown, Pa., reported, acquired Savaria coal plant.

Concrete and Cement Plants

Arkansas—Arkansas Portland Cement Co., M. O. Matthews, Treas., Ada, Okla., advises will construct 2 kiln, wet process plant in Southwest Arkansas on Graysonia, Nashville & Ashdown R. R. near Saratoga; 4½ mi. of railroad to connect with main line of G. N. & A. R. R.; C. Van Zandt, Ch. Engr., Denver, Col.; Arkansas Portland Cement Co., subsidiary of Ideal Portland Cement Co., Denver, Col. 4-12

Tex., Dallas—Hayden, Stone & Co., New York, offering \$18,000,000 20 yr. 5% convertible gold debenture bonds of International Cement Corp.; operating in Dallas, Tex.; Houston, Tex.; New Orleans, La.; Norfolk, Va., etc.; proceeds to be used to retire \$9,549,800 par value of 7% cumulative preferred stock at 110 and accrued dividend, also to purchase 2 additional plants in U. S.; for working capital of these plants and other corporate purposes.

Tex., Midland—Sholto Vickers, Box 1057, plans manufacturing conc. hollow tile.

Cotton Compresses and Gins

Tex., Acala—Acala Farmers Gin Co., capital \$20,000, incorporated; H. V. and L. B. Cooke.

Tex., Edinburg—Electra Gin Co. incorporated; J. A. Edmiston, P. D. Haley.

Tex., Longview—Farm Bureau, reported, acquired King Cotton gin; remodel for electric gin; operated by Co-operative Cotton Assn.

Tex., Wellington—Harrison Gin Co., incorporated; I. N. and Roy Harrison.

Cottonseed-Oil Mills

La., Newellton—Oil Mill and Gin Co., capital \$30,000, incorporated; W. W. Burnside, E. R. McDonald.

Drainage, Dredging and Irrigation

Fla., Palm Beach—Town Council, L. Trevett Lockwood, Town Mgr., receives bids May 1 for 1,200,000 cu. yds. hydraulic dredging; Butler, Barnett & Taylor, Engrs., West Palm Beach.

Electric Light and Power

Ark., Springtown—S. S. Evans, 220 N. Connor St., Joplin, Mo., Paul Rawson, Gravette, Rep. of Benton County Utilities Corp., reported, construct line.

Fla., Dunnellon—Florida Power Corp., St. Petersburg, reported, negotiating for city electric distribution system; may install whiteway in business district.

Ga., Thomasville—City receives bids May 7 for power plant equipment. See Want Section—Power Plant Equipment.

Ga., Tifton—City, reported, let contract to Georgia Electric and Construction Co., Columbus, for complete installation of white way system, including 89 hollowspun concrete ornamental standards from Westinghouse Electric and Manufacturing Co., Valdosta.

Mo., Poplar Bluff—R. Dron Electrical Co., Madison, Ill., reported, has contract for 400 posts white way in business district.

Mo., St. Joseph—Cater Construction Co., Kansas City, reported, low bidder at \$38,868 for parkway lighting.

N. C., Columbia—Town receives bids May 7 for electric plant equipment. See Want Section—Bids Asked.

N. C., Maiden—Mays Chapel Light and Power Co., incorporated; D. F. Propst, R. R. Robinson.

N. C., Mount Holly—Westinghouse Electric & Manufacturing Co., East Pittsburgh, Pa., reported, has contract for complete steam turbine generating apparatus for River Bend power plant for Duke Power Co.

Oklahoma—Southwestern Light and Power Co., Braniff Bldg., Oklahoma City, reported, extend line, Comanche to Addington and replace line, Duncan to Comanche.

Okla., Erick—City, reported, voted to sell electric light and power plant to Southwest-

ern Light and Power Co., Braniff Bldg., Oklahoma City.

Okla., Muskogee—City, reported, let contract to Oklahoma Electric Service Co., 307 W. Okmulgee St., for white way.

S. C., Walterboro—City ratified sale of electric plant to South Carolina Power Co., Charleston; erect steam plant addition.

Tenn., Erin—Dover Power Co., reported, surveying for transmission line, Arlington to Tennessee Ridge.

Tex., Eden—West Texas Utilities Co., Abilene, reported, double line San Angelo to here.

Tex., Hillsboro—City, reported, let contract to Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa., for steel white way standards and equipment.

Tex., Lagrange—John McCormack, Chicago, Ill., reported, acquired Light, Ice and Water Co.'s plant.

Tex., Presidio—S. C. Johnson, Fort Stockton, Tex., may rebuild burned electric plant.

Tex., Strawn—Texas Gulf Power Co., Fort Worth, reported, acquired light and water franchise and equipment from Strawn Coal Co.; increase capacity power plant; supply adjacent towns with power.

Va., Richmond—Roanoke River Power Co., reported, granted permission by Federal Power Comm., Washington, to construct hydroelectric plant and dam on Roanoke River near Bugg's Island; dam 80 ft. high; create reservoir 14,400 acres, with capacity 240,000 acre. ft. extending 23 mi.; develop 70,200 h.p.; 60-mi. transmission line to connect with Appalachian Power Co., Danville; work not expected to begin for yr. 3-15

W. Va., Martinsburg—P. W. Leiter, J. R. Poland, reported, committee to investigate advisability of erecting city power plant.

W. Va., Weston—Monongahela West Penn Public Service Co., Fairmont, reported, granted franchise for lighting in various communities in Lewis County.

Flour, Feed and Meal Mills

Tex., Petersburg—Star Engineering Co., Wichita, Kan., has contract for grain mill for Heard & Chubb Grain Co.; 26x27 ft. frame; sheet iron roof. 3-1

Foundry and Machine Plants

N. C., Gastonia—Cocker Machine & Foundry Co., reported, erect two 1-story additions; 60x100 ft. and 40x60 ft.

Tex., Fort Worth—Fort Worth Well Machinery & Supply Co., A. H. Herdman, Pres., 63 Jennings St., reported, acquired control of Texas Mfg. Co. and grounds and equipment of Fort Worth Drilling Tool Co., 2301 S. Main St.

Tex., Waco—June Machinery Co., D. June, 208 S. First St., reported, erect \$21,000 foundry.

Gas and Oil Enterprises

Ala., Birmingham—Blue Ribbon Oil Corp. incorporated; R. L. Norton, Age-Herald Bldg.

Arkansas—Arkansas Power and Light Co., Little Rock, reported, granted gas franchise Newport, negotiating for franchise in Stuttgart; plans pipe line to Memphis and St. Louis, Mo., to serve those cities and intermediate points.

Ark., Conway—Gold Creek Gas & Oil Co. of Arkansas, Dr. D. L. Bower, 2919 State St., Little Rock, may construct buildings and pipe line. See Want Section—Machinery and Supplies.

Fla., Palmetto—Southern Gas and Electric Corp., 1009 Fourth Ave., Bradenton, construct 8 mi. street gas mains, Bradenton to Palmetto, and house lines; cost \$35,000; pipe purchased from Crane Co., Chicago. 4-12

Fla., St. Petersburg—Eureka Oil, Inc., chartered; R. J. Foster, 3510 Cathedral Ave.

Ga., Barnesville—F. H. Smith, Engr., South Eastern Natural Gas Co., Monroe, La., reported, interested in natural gas line.

Ky., Richmond—City, reported, votes Sept. 23 on natural gas franchise.

Louisiana—See Miscellaneous Enterprises.

La., Gilliam—Plain Dealing Utilities Co., Inc., Shreveport, reported, acquired properties of Gilliam Gas Co.

La., Houma—Terrebonne Gas Co., reported, granted gas franchise.

La., Monroe—Ouachita Natural Gas Co., Sterlington St., B. D. Hunter, Pres., Shreveport, reported, construct pipe line from Alto to Sterlington, Sarepta, connecting at Sarepta with eastern terminus of Magnolia Gas Co.'s pipe line.

La., Vidalia—City received low bid from Walker Bros., Hammond, for natural gas distributing plant and pipe system.

Md., Cumberland—City entered into contract with Cumberland & Allegheny Gas Co., 38 N. Mechanic St., for artificial gas facilities.

Missouri—Cities Service Co., 60 Wall St., New York, reported, started construction of natural gas pipe line from Wichita, Kan., connecting with recently completed pipe line from Texas-Panhandle to Wichita; also started work on natural gas pipe line north of Kansas City running from Leavenworth, Kansas, to St. Joseph, Mo. 1-26

Miss., Greenville—L. G. Bradstreet, Fort Worth, Tex., petitioned city for gas franchise; plan organizing company pipe natural gas from Louisiana gas field, extending line to Columbus.

Okla., Cushing—Payne County Royalty Co., capital \$150,000, incorporated; J. V. Bailey, Virginia Keeling.

Okla., Hennessey—City ratified natural gas franchise to Black & Gould Gas Co.; construct pipe line.

Okla., Tulsa—Ogg Petroleum Co., incorporated; E. A. Hill, Alexander Bldg.

Okla., Tulsa—Giant Oil Co., incorporated; E. H. Jones, 7 N. Vancouver St.

Tex., Amarillo—Government completed negotiations for constructing \$1,000,000 helium gas plant on 26 acre site near here by U. S. Dept. of Commerce, R. A. Cattell, Ch. Engr., Helium Div., Bureau of Mines, Washington, D. C.; contract signed with Amarillo Oil Co. of Texas, Gas Bldg., for natural gas from Potter county field. 9-29

Tex., Aransas Pass—Humble Pipe Line Co., Houston, reported, acquired right of way along Aransas Terminal Ry. from Aransas Pass to Harbor Island; lay pipe line to deep water.

Tex., Colorado—Shell Pipe Line Co., Shell Bldg., St. Louis, Mo., reported, construct pumping plant near Westbrook.

Tex., El Paso—Crocker Interests, San Francisco, Cal., associated with Hope Engineering Co., Mt. Vernon, Ohio, and Prairie Oil and Gas Co., Independence, Kansas, reported, applied for natural gas franchise.

Tex., Fort Worth—Winkler Oil Producing Co., incorporated; Van McPhail, Ft. Worth Nat'l Bldg.

Tex., Galveston—Texas Cities Gas Co., incorporated; O. B. Wigley, 2201 31st St.

Tex., Georgetown—Community Natural Gas Co., (subsidiary of Lone Star Gas Co.), 1915 Wood St., Dallas, reported, begin laying natural gas line May 1. 3-15

Tex., Monahans—Wickett Refining Co. incorporated; C. R. Armstrong, J. T. Withers; reported, erecting refinery, capacity 2500 bbls.

Tex., Paducah—J. R. Jackson and Champ Davis of Shamrock, reported, granted gas franchise.

Tex., San Antonio—Golden West Oil Co., Nat'l Bk. Com. Bldg., reported, erect lubricating oil refinery in Medina County west of city.

Tex., Stamford—Stamford & Western Gas Co., C. O. Moore, Pres., organized under laws of Delaware, to own and operate natural gas transmission and distributing lines in Texas; capitalization of \$1,100,000 first mortgage bonds and 84,600 shares of no par value common stock, authorized amount of notes \$550,000; A. M. Lampert & Co., Inc., New York, purchased majority of stock and will soon offer bonds for sale; distribution system will include 235 mi. pipe line, now under construction; extend from point 75 mi. west of Wichita Falls to Stamford and Rotan, serve towns and cities in Hardeman, Foard, Knox, Baylor, Haskell, Jones and Fisher counties; purchase natural gas from Northern Texas Utilities Co. 10-20

Tex., Sweetwater—Bell Oil and Gas Co., reported, construct refinery, lay 70 mi. pipe line to Howard county.

Tex., Wichita Falls—Regal Oil Co. incorporated; T. J. Reese, W. L. Gilbert.

Ice and Cold-Storage Plants

Ark., Perryville—Consumers' Utilities Co. erect ice plant.

Ark., Mountain Home—B. Halbert & Son, reported, erect ice plant.

Md., Baltimore—C. Hoffberger & Co., S. C. Hoffberger, Sec., 530-48 E. Monument St., receives bids Apr. 20 for \$900,000 cold storage plant; 11 stories and basement, 140x114 ft., irregular shape, rein. conc. flat slab frame, envelope type of cork insulation, brick interior, struct. steel stairway, built-up slag roof, steel doors, sprinkler system; cork con-

tract let to United Cork Co., Lyndhurst, N. J. 2-23

Miss., Yazoo City—Crystal Ice & Fuel Co., Clarksdale, reported, erect \$50,000 ice plant, Canal St.; capacity 25 tons daily.

N. C., Raleigh—E. L. Henderson, 619 S. Broad St., Burlington, reported, erect ice plant.

Tex., Beaumont—American Service Co., reported, acquired Josey Ice & Coal Co., Pine and Long Sts.

Tex., Dallas—Swift & Co., U. S. Yards, Chicago, Ill., install \$150,000 refrigeration system at plant recently acquired in S. Dallas. 2-9

Tex., Marble Falls—Texas Power & Light Co., Dallas, reported, acquired ice plant; construct refrigeration vault; install machinery.

Tex., Victoria—C. L. Desel, Houston, Pres., Desel-Bottcher Co., 901 N. San Jacinto St., Houston, and W. H. Schaeffer, reported, plan cold storage plant.

Iron and Steel Plants

Mo., St. Louis—Ornamental Iron, etc.—Usona Mfg. Co., 3512 Chouteau Ave., let contract to Gillespie & Daly, International Life Bldg., for plant addition; brick, 75x80 ft., wood floors, wood comp. roof. 4-12

Okl., Muskogee—Muskogee Iron Works, Inc., Frankfort and Spaulding Sts., increased capital to acquire Oklahoma Engineering & Foundry Co.; may improve.

Tex., Houston—Texas Iron Works, 1405 Maury St., increased capital, \$18,000 to \$100,000.

Land Development

Ark., Pine Bluff—McGehee Planting Co., National Bank Bldg., capital \$70,025, incorporated; J. D. McGehee, T. M. Hooker; operate 1300 acre plantation on Star City highway.

Ark., Pine Bluff—Linwood Camp, capital \$50,000, incorporated; J. W. Clements, 219 W. 12th St.; operate farm lands in southern Jefferson County.

Fla., Andalusia—Lake Crescent Farms Co. incorporated; H. W. Henderson, J. W. Campbell.

Fla., Fairfield—Fairfield Estates Corp. incorporated; E. P. Waldron, W. E. Sexton.

Fla., Fort Lauderdale—Lauderdale Citrus Farms, John Lochrie, reported, develop citrus grove on 320 acres in Middle River Reclamation Dist.; M. O. Decker, of Middle River Drainage Dist., will superintend work.

Fla., Fort Lauderdale—Lauderdale Citrus Growers, Inc., chartered; W. P. Tanner, John Lochrie.

Fla., Fort Lauderdale—Hillsboro Inlet Corp., incorporated; C. H. Landerfield, Irene J. Beville.

Fla., Jacksonville—Southern Pine Naval Stores Co., incorporated; J. B. Johnson, 1006 Laura St.

Fla., Leesburg—G. J. Maurer acquired 20 acre citrus grove.

Fla., St. Petersburg—City Comm., reported, considering golf course and park on Weedon's Island.

Fla., St. Petersburg—Income Properties Corp., incorporated; G. Miller, Power & Light Bldg.

Fla., Scottsboro—Indian River Citrus Corp. incorporated; W. S. and H. M. Scott.

Fla., Wabasso—Orchid Fruit Co., incorporated; G. D. Kronenberg, L. H. Simon.

Fla., West Palm Beach—Del Mar Corp., Henry G. Barkhausen, Pres., reported, develop Via La Selva subdivision.

Ga., Augusta—Beech Island Agricultural Club, reported, plans establishing park at Beech Island; 36-acre site.

Ga., Hapeville—Fulton County Comms. develop 58 acre park south of city.

Ga., Swainsboro—City, reported, plans developing park, build swimming pool; American Legion erect building.

La., New Iberia—Golf and Country Club, Edw. Estorge, Pres., reported, develop golf course.

La., Shreveport—Brown-Posey Realty Co., Ricou-Brewster Bldg., incorporated.

Md., Baltimore—City, Wm. I. Norris, Pres., Park Bd., plans constructing 18-hole golf course on Taylor tract, 200 acres along Hillen Rd.

Mo., Kansas City—Associated Investment Corp., Finance Bldg., W. Frank Wisdom, Pres., developing 3 subdivisions in Clay County; grade streets, etc.

Mo., Kansas City—Oakhurst Golf Course and Development Co. incorporated; Wm. O. Robinson, 1823 Brownell St.

Mo., St. Louis—Morika Realty Co. incorporated; Wm. S. Moore, Murphy Bldg.

Mo., St. Louis—Aldine Realty Co., incorporated; Charles F. Betz, 566 N. 30th St.

Mo., St. Louis—Wandavard Realty Co., capital \$35,000, incorporated; Louis F. Yeckel, Woodbine and George Sts.

Mo., St. Louis—A. Jay Kuhs Realty & Investment Co., 929 Chestnut St., inceptd.

Mo., St. Louis—Breillias Bergefeld Realty Co., Inc., chartered; George Demas, 4114 Maryland Ave.

Mo., St. Louis—B. P. Owen Organization, Frisco Bldg., reported, develop 315 acres in St. Louis County.

Mo., St. Louis—James K. McCoy, Inc., incorporated; T. L. Remley, 5732 DeGivrule St.

Mo., St. Louis—Harold C. Simon & Co., Inc., chartered; Harold C. Simon, 4446 Floriss St.

N. C., Charlotte—T. H. Lamar, Sales Agt. for Marsh Estates, reported, construct road and develop 10-acre sub-division.

N. C., Reidsville—Donald P. Ross, Golf Engr., Little Compton, R. I., reported, planning 9 hole golf course at Penrose Park; work under supervision of Raymond Wrenn, Pinehurst.

N. C., Waynesville—Hazelwayne Co. incorporated; R. W. Miller, Geo. H. Ward.

Okl., Beaver—G. S. Hennigh may establish irrigated commercial orchard on 320 acres in Beaver County.

Okl., Tulsa—Ralph Kistler, 1356 27th Pl., plans developing, model 10-acre farm for fruit, poultry, etc.; build chicken houses, water system.

Okl., Tulsa—Rivermount Development Co., incorporated; J. H. Maxey, Tuloma Bldg.

Tenn., Johnson City—Harry D. Gump, reported, install city sewer and water main in sub-division.

Tenn., Knoxville—Parkwood Manor, Inc., W. C. Rector, 3227 E. Fifth Ave., develop 25-acre sub-division; construct concrete streets, parks, install gas, electric light, water, sewers; expend \$60,000; Lee A. Gridley, Gen. Contrs., 1720 Rose Ave.; Wilkerson and Wilkerson, Landscape Archts., Mercantile Bank. 3-15

Tex., Beaumont—B. E. Quinn, Wiess Bldg., Thomas J. Baten, reported, acquired 1020 acres 6 miles south of city.

Tex., Cotulla—Trinity Farms Construction Co., reported, has contract for colonizing Winter Garden tract; construct gravel roads.

Tex., Houston—Washington Land Corp. incorporated; J. J. King, 205 Stratford Ave.

Tex., Houston—Brainin and Winston, Inc., 1001 Main St., developing 53 acres subdivision; install permanent paving, curb and gutter, ornamental lights, sewers, gas, water, lights and telephone; expend \$150,000; Edminster and Cobe, Electric Bldg., Constr. Engr.; Texas Nursery Co., Esperson Bldg., may receive contract for landscaping. 4-12

Tex., Houston—C. W. Hahl, Post-Dispatch Bldg., reported, secured option for syndicate on 2200 acres southside of Ship Channel.

Tex., Houston—West Chester Land Co., A. D. Foreman, Second Natl. Bank Bldg., reported, develop 715 acres. 4-12

Tex., Houston—Pyrrell Garth Investment Co., L. A. Atkins, Mgr., reported, develop 24-acre sub-division; construct shelled streets, curb and gutters, install water, sewers, light and gas.

Tex., Rockport—Ben Thompson, reported, improve and enlarge Cool Coast Camp, tourist camp; erect dance hall.

Tex., San Antonio—W. T. Bidwell, 205 Gunter Bldg., developing 2684-acre subdivision.

Tex., Smithville—Lions Club, E. C. Williams, reported, interested in development of 150-acre park.

Tex., Temple—City voted park bonds. See Financial News. 3-15

Va., Bluefield—City, reported, develop cemetery.

Lumber Enterprises

Ark., Tulot—C. A. James Timber Co. plans rebuilding burned mill.

Ky., Henderson—Clare Lumber Co., capital \$10,000, incorporated; Shirley Clare, Sam C. Lambert, Jeff C. Davis.

La., Hammond—John Lumber Co., Inc., in-

corporated; John W. Bradley, New Orleans, La.; W. A. Bradley, McComb, Miss.

Mo., St. Louis—United Lumber Co., 3412 Market St., increased capital \$50,000 to \$150,000.

N. C., Greenville—North Side Lumber Co. incorporated; W. J. Smith, R. F. D. No. 6.

S. C., Summerville—McLeod Logging Co., incorporated; A. R. McLeod, E. E. McLeod.

Tex., Memphis—J. C. Wooldridge Lumber Co. rebuild burned lumber yard, Sixth and Brice Sts.

Mining

Ala., Birmingham—Alabama Mica Co., Inc., capital \$50,000, incorporated; R. T. Clayton, 985 Conroy Rd.

Ark., Little Rock—Arkansas Diamond Corp., capital \$250,000, reorganized by Roy L. Thompson, 800 N. Walnut St.; J. Gilbert Leigh; to acquire stock of old organization, leased property and operate.

Tex., Houston—Houston Salt Co., Joe H. Eagle, Esperson Bldg., reported, plans \$500,000 salt refining and storage plant in Harris County on H. & T. C. Rwy.

Tex., Houston—Gulf Gravel Co., capital \$40,000, incorporated; W. L. Pearson, Post-Dispatch Bldg.

Tex., Mission—E. L. Bayse, Houston, reported, acquired Crystal Sand Co.

Tex., Wharton—Texas Gulf Sulphur Co., Inc., 41 E. 42nd St., New York, reported, acquired 120 acres sulphur deposit land; lay out townsite for workers; construct spur railroad track to field.

Va., Brookneal—Cinchfield Sand and Feldspar Corp., Hearst Tower, Baltimore, install feldspar crushing and pulverizing plant; operate quarries at Moneta on Virginia R. R. and Point on Norfolk & Western Rwy.; first unit to have capacity of 45 tons per 20 hours; remove portion of machinery from Charlotte and purchase equipment.

Miscellaneous Construction

D. C., Washington—War Dept., Dwight F. Davis, Sec., receives bids until June 2 from architects and sculptors for design for unknown Soldier's tomb, Arlington National Cemetery; application to Q. M. Gen., Cemetery Division, Munitions Bldg.

La., New Orleans—Port Comms., 200 N. Courthouse Bldg., reported, has low bid at \$232,700 from Lukens Steel Co., Poland and Rocheblave Sts., for furnishing materials and erect struct. steel frame sheds and viaducts at Poydras and Girod St. wharves, include T-rail, stairs and ladders; 3140 tons steel. 4-5

Mo., Holcomb—Levee Dist. No. 7, Dunklin County, Kennett, expend \$350,000 for levee along St. Francis River; use 2 or 3 dragline machines; A. C. Spiker, Const. Engr. 4-12

Mo., Kansas City—City, T. J. Brodnax, Chmn. of Waterways Committee, has plans by Walter F. Schulz, Shrine Bldg., Memphis, Tenn., for dock with river frontage of 1600 ft.; equip for handling bulk cargoes; build perpendicular river front of conc., on conc. wall; will be double tracked; initial capacity 12 cars, ultimate capacity 24; install traveling crane to life cargoes from barge to freight car; dockhouse for package freight, 100x300 ft., with 4 rows of switch tracks on inland side; escalator from dockhouse to floating barge; upstream unit of river-rail terminal will be grain elevator. 3-15

Mo., St. Joseph—U. S. Engrs., 707 Postal Telegraph Bldg., Kansas City, has low bid from Woods Bros. Construction Co., Lincoln, Neb., for constructing 3000 ft. retards, Contrary Bend. 4-12

Tex., Temple—Abattoir—City, reported, voted bonds for abattoir. See Financial News.

Miscellaneous Enterprises

Ala., Birmingham—Craven Bakers Supply Co., incorporated; Chas. A. Craven, 2415 First Ave.

Ala., Birmingham—Dixie Mattress Co., capital \$50,000, incorporated; A. R. Addison, 1115 N. 27th St.

Ala., Birmingham—Birmingham Brick & Material Co. incorporated; G. L. Leslie, 1829 30th St.

Ala., Tuscaloosa—Libby, McNeill & Libby, Chicago, Ill., reported, let contract to Waddell & Laycock, Tuscaloosa, for condensation. 4-5

Ark., Little Rock—Southern Paper Box Co., capital \$100,000, incorporated; A. Karchner, 503 E. Seventh St.

Fla., Bartow—Bartow Auto Laundry, Inc., incorporated; W. E. Burke, M. M. Burke.

Fla., Jacksonville—Conway Dental Mfg. Co., incorporated; W. H. Conway, 1636 Oak St.

Fla., Lake Wales—Highlander Publishing Co., J. E. Worthington, V.-Pres., plans \$20,000 plant.

Fla., Miami—Amusement Equipment—Fincham Equipment Corp., incorporated; G. J. Baya, Sixth St.

Fla., St. Cloud—Wieland Mfg. Co., R. G. Wieland, plans manufacturing citrus connections. See Want Section—Machinery and Supplies.

Fla., Stuart—St. Lucie Printing Co., Inc., incorporated; Edwin A. Meninger, T. H. Getzen.

Ga., Atlanta—White Provision Co., Howell Mill Rd., reported, receives bids Apr. 20 for packing building; brick, conc., 2 stories and basement, 50x100 ft., built-up roof, conc. floors; R. Kennon Perry, Archt., Wynne-Clauston Bldg. 3-20

Ga., Atlanta—Empire Tobacco Co., capital \$1,000,000, incorporated; Randolph Meade, Craghead St., Danville, Va.; H. C. Geiger, Atlanta; acquired plant of Southern Tobacco Corp.

Ga., Hawkinsville—Seminole Milk Co., 342 Riverside Ave., M. L. Fox, Pres., Jacksonville, reported, considering erecting \$200,000 condensed milk plant.

Ga., Savannah—Georgia Rosin Product Co., Lathrop Ave., B. S. Brown, Pres., erect sheds and office building; brick, iron roof.

Ga., Savannah—Lindsay-McMillan Co., Milwaukee, Wis., reported, acquired 5-acre tract, Augusta Rd.; erect core oil manufacturing plant.

Ga., Sylvester—Sylvester Local, reported, erect 1-story newspaper plant, Kelley St.

Ky., Lexington—Laval Cleaners, 554 E. Third St., incorporated; J. H. Laval.

Ky., Louisville—Coca-Cola Bottling Wks., 1529 Bank St., Martin L. Schmidt, Pres., let contract to J. N. Jackson, 714 W. Chestnut St., for \$10,000 addition; conc., brick, stone, comp. and wood floors, comp. roof, conc. foundation. 4-12

Ky., Louisville—Home Circle Publishing Co., Kenyon Bldg., increased capital, \$25,000 to \$50,000.

Ky., Louisville—Nolan Cigar Co. incorporated; Frank A. Nolan, 807 Sutcliffe St.

Louisiana—E. I. Du Pont de Nemours Co., Wilmington, Del., reported, leased 5000 acres in Caddo and DeSoto parishes, northwest Louisiana, use natural gas produced in manufacture of synthetic wood alcohol.

La., Baton Rouge—Wm. Wolfe, 506 Third St., reported, erect bakery; brick, 2 stories; A. C. Stewart, Contr., 810 East Blvd.

La., Covington—St. Tammany Parish Amusements, Inc., increased capital, \$15,000 to \$50,000.

La., Monroe—Harrison Street Building Co., Inc., capital \$300,000, chartered; Abe Arent, 120 Jackson St.

La., New Orleans—A. J. Falkenstein remodel and erect addition to 1-story bakery; Cohn and Joliet Sts.; frame, brick; Jones, Roessle & Olschner, Archts., Maison Blanche Bldg.

La., Shreveport—Federal Bakeries, Inc., Davenport, Iowa, lease building, 502 Texas St., remodel for bake shop.

La., Shreveport—Standard Paint Mfg. Co. incorporated; Geo. W. Sproull, 522 Common St.

Md., Baltimore—Albert Norwitz, 3614 Park Heights Ave., erect laundry.

Md., Baltimore—General Elevator Co., Bush and Ridgely Sts., erect addition; 140x20 ft., 1 story, brick, steel sash and frame, wood roof covered with slag, conc. floors; method of heating extension not decided; sprinkler extension contracted for later; W. S. Austin, Consit. Engr., Maryland Tr. Bldg.; owner builds.

Md., Baltimore—American Cider-Vinegar Co., 4 E. Redwood St., acquired building, Cold Spring Lane and Jones Falls, Melvale, for vinegar plant.

Md., Baltimore—Union Boat and Truck Co., Henry P. Baker, Pres., recently formed, plans operating fast freight boats, from Baltimore to points on Chesapeake Bay and its tributaries; use boats equipped with oil-burning Diesel engines and specially designed propeller; 136 ft. long; capacity 450 tons, 5-ft. draft; designed by Capt. Fred D. Doty; other officers include: Walter T. Startzman, first V.-Pres.; Geo. W. Lindsay, Sec.; Geo. M. Gillet, Jr., Treas.; Wm. T. Donnelly, Consit. Engr., New York.

Miss., Booneville—S. W. Tapscott and others, reported, plan cheese plant.

Miss., Jackson—Chamber of Commerce, reported, interested in establishing garment factory.

Miss., Senatobia—Swift & Co., Chicago, Ill., reported, erect \$30,000 cheese factory.

Mo., Bowling Green—Keppish Bros. Hatchery Co., W. E. Keppish, reported, erect \$30,000 hatchery; brick, 2 stories; Norman Dixon, Archt.

Mo., Kansas City—Special Formula Laboratories, 3044 Main St., reported, let contract to W. L. Elson, 4738 Oak St., for cosmetic plant, Robert Gillham Rd.; 2 stories, 50x120 ft., with foundation for third and fourth story; fireproof.

Mo., Kansas City—Waxide Paper Co., 20th, Tracy and Berkowitz Sts., increased capital \$150,000 to \$400,000.

Mo., Kansas City—Richmond Fireproof Door Co., incorporated; R. L. Elton, 5646 Rockhill Rd.

Mo., Kansas City—Hicks Stove & Mfg. Co., incorporated; Daisy Hicks, Chas. E. Boydson, Fred C. Immele.

Mo., Kennett—Ely-Walker Dry Goods Co. erect 3-story factory addition; Otto W. Rubach, Archt., St. Louis.

Mo., Moberly—City, reported, votes May 1 on traffic signal light bonds. See Financial News.

Mo., St. Louis—Dodson Cleaning Co., reported, leased building 5869 Delmar Blvd., remodel and enlarge.

Mo., St. Louis—Art Kraft Hat & Cap Co., incorporated; David Dee Stone, Joseph J. Altman, Jacob M. Molsafsky.

Mo., St. Louis—American Pictorial Publishing Co., incorporated; Roswell Messing, J. Clarence Taussig, Boatmens Bk. Bldg.

Mo., St. Louis—Missouri Granite & Construction Co., 7607 Warwick Drive, incorporated; Francis R. Lowther, Joseph Schroeder.

Mo., St. Louis—T. B. Ferguson, American Oil Heat Engineering Co., 31 St. George St., proposes locating plant for making domestic and commercial oil burners; wants distributors throughout the South.

Mo., St. Louis—Aro Creamery Co., Gilbert T. Guthrie, Pres., 407 Sarah St., reported, erect \$50,000 creamery, 4112 Papin St.

Mo., St. Louis—Larkin Packer Co., John J. Lark, 6200 Maple Ave., acquired Daviss Boring Tool Co., 3693 Forest Park Ave.

N. C., Greensboro—Ebroclo Shirt Co., 222 E. Market St., H. C. Chandigle, Pres., erect \$75,000 building, S. Elm and Whittington Sts., 2 stories.

N. C., New Bern—Coca Cola Co., Geo. H. Hutfaff, owner, 617 Market St., Wilmington, rebuild burned plant.

N. C., Stovall—D. A. Burwell, Burwell Tie Co., plans establishing rug and canvas factories. See Want Section—Machinery and

N. C., Winston-Salem—Carolina Towel & Supply Co., E. Seventh St., erect building, brick, conc., 50x100 ft., 2 stories; Gilbert Humphries, Inc., Archts., Gilman Bldg.

Okla., Fairfax—Elmer Petree, reported, acquired Fairfax Chief Newspaper.

Okla., Ponca City—Empire Refining Co., Bartlesville, will not erect \$400,000 alcohol plant addition as recently noted. 4-12

Okla., Ponca City—Ponca City Wholesale Bread Co., capital \$65,000, incorporated; Hay H. Richardson, Laura Richardson.

Okla., Tulsa—Storm Rubber Co., incorporated; Foster B. Storm, 508 S. Delaware St.

Okla., Tulsa—Guaranty Laundry, 15 N. Boulder St., E. B. Wolverton, Mgr., reported, erect brick laundry, 11th and Rockford Sts.; Grimshaw Construction Co., Contr., 13th and Elgin Sts.

S. C., Columbia—H. H. Claussen Sons, 1589 Broad St., erect bakery; Claussen-Lawrence Construction Co., Contr., 1394 Gwinnet St., both Augusta, Ga.

Tenn., Gallatin—Kraft Cheese Co., 402 Rush St., Chicago, Ill., reported, let contract for conc. and foundation work to Clayton Paving Co., 203 1/2 Eighth Ave., N., Nashville, for \$100,000 plant; brick and woodwork to Lassiter & Duncan Co. 2-2

Tenn., Memphis—Kwik Heat Oil Co., capital \$25,000, incorporated; W. P. Biggs, U. & P. Bank Bldg.

Tenn., Memphis—Union Carbide & Carbon Corp., 30 E. 42nd St., acquired Memphis Oxygen Co.; will enlarge plant, McLemore Ave.

Tenn., Memphis—See Tex., Dallas.

Tenn., Union City—Union City Coca Cola Bottling Co., Hugh Smith, Mgr., remodel building.

Tenn., Winchester—Franklin County

Creamery Assn., reported, plans establishing cheese plant.

Tex., Amarillo—Paraffin Heating Engineering Corp., incorporated; W. P. Martin, Smith Bldg.

Tex., Breckenridge—Peoples Dairy Products and Produce Co., incorporated; H. R. Post, B. R. McWhorter.

Tex., Breckenridge—Breckenridge Foundry & Supply Co., incorporated; L. S. Pelphrey, C. A. Davis, W. S. Slangerup.

Tex., Coleman—Democrat-Voice, H. H. Jackson, owner, reported, erect building; brick, 50x115 ft.

Tex., Dallas—Max Hahn, reported, plans \$350,000 improvements and rebuilding N. Dallas packing plant.

Tex., Dallas—Wyeth Allen, Ch. Engr., Chase Bag Co., 206 S. Water St., Milwaukee, Wis., supervising buildings, equipment and installation of plants under way at Dallas, and Memphis, Tenn. 4-5

Tex., Eastland—Index Publishing Co., incorporated; Chas. Kellum, Ada G. Kellum.

Tex., Galveston—C. E. Barfield, 2421 33rd St., reported, develop amusement park; John Egert, Contr., 2319 37th St.

Tex., Galveston—Galveston Rice Milling Co., reported, establish auxiliary feed plant in connection with rice mill; double capacity of rice mill. 1-19

Tex., Houston—Electrical Equipment & Construction Co., incorporated; Harry B. Darcy, 2613 Beauchamp St.

Tex., Houston—Texas Port City Storage and Transfer Co. incorporated; G. L. Thacker, 4828 La Branch St.

Tex., Houston—Construction—Stallones & Bobo, Inc., incorporated; J. F. Bobo, 4315 Garrott St.

Tex., Houston—Ricker Construction Co., Inc., incorporated; G. L. Ricker, 7139 Sherman St.

Tex., Marshall—Palace Cleaners and Dyers, reported, erect \$10,000 building, S. Washington Ave. and W. Crockett St.; Quisile & Andrews, Contrs.

Tex., Pharr—Sunshine Cleaning Co., incorporated; T. W. Doster, Guy Johnson, J. D. Nicholson.

Tex., Slaton—J. L. Nunn, Nunn Bldg., Amarillo, and D. D. Roderick, Lubbock, reported, acquired Slatonite newspaper.

Va., Norfolk—American Creosoting Works, Inc., Bk. of Com. Bldg., reported, erect \$150,000 plant for distilling creosote from coal tar; annual capacity 4,000,000 gallons; eventually 10,000,000 gallons; J. A. Vaughan, superintend construction.

Va., Richmond—Stauffer Chemical Co., Inc., Albert Walter, V.-Pres., Grand Central Terminal, New York, reported, acquired Amphill site, erect chemical plant to manufacture chemicals used in making rayon.

Va., Roanoke—Home Laundry and Dry Cleaning Corp., capital \$50,000, incorporated; J. A. Cook, 1715 Loudon Ave.

W. Va., Charleston—Oxygen—Linde Air Products Co., unit of Union Carbide and Carbon Corp., 30 E. 42d St., New York, reported, let contract to Stone & Webster, Boston, Mass., for \$1,000,000 plant, First Ave.

Motor Bus Lines and Terminals

Ala., Montgomery—N. J. Bell, 724 S. Perry St., let contract to J. O. Estes & Co., 23 Adams St., for \$10,000 terminal, Lee St., conc. floors, built-up roof; Okel & Cooper, Archt., Bell Bldg.; address equipment proposals to Blue Goose Bus Co., Lee St.

La., New Orleans—Gulf Motor Freight Lines, Inc., chartered; R. H. Miller, 4466 Venus St.

Okla., Enid—J. B. Hallman, reported, acquired Enid-to-Woodward bus line.

Okla., Miami—Royal Coaches, H. H. Moore, reported, applied for permission to operate bus line between Kansas City and Miami, Okla.

Okla., Tahlequah—J. H. Kile has permit to operate bus line between Tahlequah and Muskogee via Wagoner, and M. B. Patterson and R. E. Bayless between Hugo and Durant.

Tenn., Memphis—Gregory Bus Line, 200 S. Second St., will establish Memphis-Vicksburg bus line.

Tex., Fort Worth—Texas-Oklahoma Coaches, R. C. Bowen, Mgr., 4816 Pershing St., reported, applied for permission to operate bus and truck lines between Fort Worth and Tulsa, Okla.

Va., Richmond—Waterview Bus Corp., reported, extend Portsmouth-Churchland bus line from Churchland to Driver.

W. Va., Parkersburg—Reynolds Bus Line Co., Parkersburg, has permit to operate bus line between Parkersburg and Cairo.

Motor Cars, Garages, Filling Stations

Ala., Birmingham—Reo Birmingham Motors Co., capital \$25,000, incorporated; Geo. H. Stout, M. L. McLaurine.

Ala., Phenix City—Wilson Williams Lodge, No. 351, A. F. & A. M., erect \$15,000 garage; brick, 62x134 ft., built-up roof, conc. floor; T. F. Lockwood, Archt., Murrah Bldg.; Cooper Lumber Co., Contr., 12th Ave., both Columbus, Ga.

Ark., Fort Smith—R. N. Haydock, Clifton Court, let contract to Claude Meadors, 623 S. Ninth St., for filling station, S. F. St. and Towson Ave. 4-12

Ark., Fort Smith—R. K. Rodgers Oil, Inc., care R. K. Rodgers, First Natl. Bank Bldg., reported, erect \$10,000 filling station; owner builds.

Ark., Pine Bluff—Peter Zack erect \$14,000 filling station, Tenth and Main Sts.; J. L. Minor, Contr.

Fla., Daytona Beach—Reeds Hudson-Essex Co., Inc., incorporated; E. G. Reed, J. A. Reed.

Fla., Eustis—Lake Motors, Inc., erect \$15,000 building, Bay St.; brick.

Fla., Jacksonville—Florida Knight Motor Co., capital \$15,000, incorporated; F. T. Summers, 2036 Walnut St.

Fla., Pompano—Pompano Motor Co., capital \$25,000, incorporated; S. F. Baker, T. G. Farmers, Jr.

Fla., St. Petersburg—Huggins Motor Parts, Inc., incorporated; Miller Huggins, 1416 Second St., N.

Fla., Vero Beach—W. E. Cherry, reported, erect garage, 23d St.; frame, stucco, 47x50 ft.

Ga., Newnan—Wofford Oil Co., reported, erect filling station; Sam H. Miller, Contr.

Ga., Savannah—W. Haysman, 114 Maple St., reported, erect filling station and store, Louisville Rd.

Ga., Swainsboro—W. O. Sanders Garage erect filling station, Church and Main Sts.

Ky., Bowling Green—Hill-Linville Tire Co., incorporated; W. H. Hill, J. G. Lackey, J. M. Linville.

La., Baton Rouge—Mrs. A. L. Goodson let contract to J. W. O'Brien, Monroe, for \$12,000 garage, W. Hall St.; 1 story, 60x109 ft.

Ky., Louisville—Edward J. Bosler, Tyler Hotel, reported, erect \$500,000 storage garage building, Third and Tuttle Sts.; 3 stories and basement, 161x105 ft.

La., New Orleans—Nola Oil Co., 3608 Howard Ave., erect \$11,000 oil station, Rampart St.; stone, tile, 33x63 ft., comp. and metal roof; Edw. D'Armas, Archt.; Geo. J. Lupo, 5404 Hawthorne St.

La., New Orleans—Firestone Tire and Rubber Co., Akron, Ohio, erect \$24,000 building, Rampart St.; brick, frame, 2 stories, comp. roof; Rathbone DeBuys, Archt., Hibernia Bldg.; Gervais F. Favrot, Contr., Balter Bldg.

La., Shreveport—Clarence W. King, Archt., Giddens-Lane Bldg., reported, soon receive bids for \$90,000 garage; 2 stories, 115x150 ft.

La., Winnsboro—C. R. Adams erect \$20,000 filling station and garage, Prairie St.; brick.

Md., Baltimore—Wood Auto Service Co., 905 Pennsylvania Ave., incorporated; Geo. M. Wood, John S. Jones.

Miss., Batesville—Irby Motor Co., reported, erect building, Panola Ave.

Miss., Clarksdale—Garmon-Nix Motor Co., incorporated; John H. Garmon, W. O. Nix, E. T. Garmon.

Miss., Cleveland—Gilmer Grocery Co., reported, erect filling station, cotton gin and warehouse.

Mo., Springfield—Thompson Race Tire Co., 432 St. Louis St., Geo. M. Thompson, reported, erect \$50,000 building, 200 Kimbrough Ave.; W. W. Johnson, Contr., 301 College Ave.

Mo., St. Louis—Auto Dealers Salvage Co., 3124 Locust St., incorporated; R. C. Framp-ton.

Mo., St. Louis—C. Di Franco, 2107 Edwards Ave., reported, erect \$22,000 filling station, Oleatha Rd.; 1 story and basement, 44x25 ft., conc. floor; F. G. Davis, Archt., 1019 Big Bend Rd.; owner builds.

Mo., St. Louis—Jamieson & Spearl, Arcade Bldg., reported, preparing plans for \$100,000 garage.

Mo., St. Louis—Fred Campbell Auto Supply Co., 206 Locust St., increased capital \$200,000 to \$400,000.

Mo., St. Louis—Associated Motor Terminals Co., reported, erect \$300,000 Seven-Mor Garage, Morgan and Seventh Sts.; fireproof, rein. conc., brick, terra cotta, 6 stories, 127x 87 ft.

Mo., St. Louis—Barret Weber Motor Co., incorporated; Rodney M. Fairfield, 506 Olive St.

N. C., Charlotte—Lockwood, Greene & Co., Inc., Engrs.-Archts., let contract to Brown-Harry Construction Co., E. Main St., Gastonia, for automobile service building for J. R. Van Ness, 1806 E. Fourth St., to be occupied by Enfield-Norfleet Co.; automatic sprinkler system, Crawford & Slaten Co., Wilder Bldg.; electric, Harrison-Wright Co.; heating, A. Z. Price Co., Inc., 219 Lotta Arcade, all Charlotte.

Okla., Tulsa—H. L. Stattler, Pittsburgh, Pa., reported, financing construction of building, Tenth and Elgin Sts., to be occupied by Marmon Automobile Agency, 620 E. Fourth St.; steel, conc., brick, 90x175 ft., 2 stories and basement; C. L. Dilbeck, Archt.

S. C., Chester—Wyllin White erect \$10,000 garage; brick, steel truss, 1 story, 55x100 ft., 1 story, built-up roof; Julian S. Starr, Archt., Rock Hill, S. C. See Want Section—Building Material and Equipment.

S. C., Orangeburg—F. A. and Luther Ad-den, reported, erect garage, W. Amelia and Broughton Sts.

Tenn., Memphis—C. Y. Lynch, reported, erect filling station, Macon Rd.; R. B. Spencer, Archt., Fidelity Bank Bldg.; W. C. Stout, Contr., 719 Maury St.

Tenn., Memphis—Stewart Storage Co., Pea-body Hotel, reported, erect filling station, 1188 S. Bellevue St.

Tenn., Nashville—Blackwood's, Inc., changed name from Blackwood Tire and Battery Co., 914 Broad St.; increase capital, \$200,000 to \$300,000.

Tex., Austin—Bustin Cutcheon Motors, Inc., incorporated; C. T. Bustin, 508 E. 39th St.

Tex., Austin—Scott Yeamans, 108 W. First St., reported, has contract for Exide Battery Service station, Sixth and San Antonio Sts., for M. C. Parrish, 2304 Guadalupe St.; brick 1 story, 70x128 ft.; Hugo Kuehne, Archt., Littlefield Bldg.

Tex., Cotulla—Crain-Mars Buick Co., incorporated; A. E. Crain, Bert Mars, B. Wil-denthal, Jr.

Tex., Fort Worth—Les-Tex Auto Sales, Inc., incorporated; W. A. Polk, 1351 Mistleto St.

Tex., Houston—Waddell House Furnishing Co., 1102 Prairie Ave., reported, let contract to Tellepsen Construction Co., 3900 Clay St., for \$25,000 garage and shop, 812 Sampson St.; rein. conc., brick, 100x112 ft.

Tex., Laredo—Chevrolet Motor Co., reported, erect garage addition; brick, tile, rein. conc., 55x110 ft.; Guy M. Trout, Archt., Ramos Bldg.

Tex., San Antonio—United Services Auto Assn., Wilson and Sherley Sts., reported, erect \$18,000 warehouse, Spofford St.

Tex., Uvalde—Jake Schwartz and A. F. Smyth, reported, has low bid from Jim Chittim, Box 153, San Antonio, for \$10,000 garage; brick, conc. steel, 60x120 ft., galv. iron roof; Will N. Noonan Co., Archts., Builders Exchange Bldg., San Antonio. 3-29

W. Va., Fairmont—Wilson Tire & Battery Co., incorporated; Marvin J. Wilson, Minnie E. Boor.

Railways

N. C., Elkin—Interstate Commerce Comm., Washington, reported, granted permission to Elkin and Alleghany R. R. Co., A. G. Click, V.-Pres., to issue \$56,000 common stock to holders of old common stock and \$185,500 preferred stock to State of North Carolina.

Tenn., Nashville—Interstate Commerce Comm., Washington, authorized Tennessee Central Railway, H. W. Stanley, Pres., Amer. Tr. Bldg., to issue \$410,000 first mortgage 6% gold bonds, Series B.

Tex., Houston—North Side Belt Line Rwy., J. S. Cullinan, owner, reported, secured right of way for railway from Houston to Port Arthur via Chambers County.

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Ala., Birmingham—City Comm., reported, plans \$42,170 to pave Lomb Ave.; A. J. Hawkins, City Engr.

Ala., Birmingham—City Comm., reported, receives bids May 1 and 8 for cement sidewalks, curb, gutter, asphalt and conc. paving on various streets; A. J. Hawkins, City Engr.

Ala., Birmingham—City Comm., plans paving Green Springs Rd. in city, connect with Green Springs Rd. paving, under construction by Jefferson County.

Ala., Sheffield—City Comm., reported, approved plans to pave, curb and gutter, drain, grade, etc., 8 streets, and intersecting streets; sanitary sewers on several streets; sidewalks on 5 streets; sheet asphalt, Warrenite bitulithic, Hmerock asphalt, vit. brick, rein. or plain conc., paving.

Ala., Uniontown—English Construction Co. low bidder, \$13,162, for 1½ mi. paving in Uniontown.

Ark., Conway—H. D. Russell, Mayor, reported, plans \$84,190 to extend paved streets, and repair conc. and asphalt pavements.

Ark., Fort Smith—J. H. Parker, Mayor, reported, received low bid from M. Hyman, Mansfield Rd., Shreveport, La., \$248,853, to pave N. Tenth, Rogers and part of Towson Ave. 3-15

Ark., Little Rock—Comms. Street Improvement Dist. 492, Will Baer, Chmn., receive bids Apr. 24 for 4,000 cu. yd. excavation, 11,300 sq. yd. conc. pavement, 6000 lin. ft. curb storm sewers, catch basins, manholes, etc.

Fla., Fort Lauderdale—City Comm. receives bids Apr. 24 to improve, re-pave and re-surface, 18-ft. wide, native rock base, surface treated with asphaltic oil and sand.

Fla., Jacksonville—M. W. Bishop, City Sec., reported, receives bids Apr. 30 for 16,339 sq. yd. 1½-in. sheet asphalt, 1½-in. binder, 6-in. conc. base, 1192 sq. yd. 24-in. vit. brick gutter, 8283 sq. yd. asphalt, 3748 sq. yd. conc.

Fla., Jacksonville—City Comm., M. W. Bishop, Sec., reported, receives bids Apr. 23 for 13,400 sq. yds. tile or conc. sidewalks, driveways, grading, curbing, etc.

Fla., Monticello—Jefferson County Commrs., C. P. Mays, Chmn., reported, may receive bids in 30 days, for Lloyds rd., Highway No. 1, to Lloyd, via old road.

Fla., Orlando—Orange County, reported, plans hard surfacing 25 roads, totalling 67 mi., \$1,340,000. See Financial News.

Ga., Fitzgerald—Ben Hill County Commrs. plan highway, Fitzgerald to Cordele, along A. B. & C. right of way through Abba, Rebecca, Hatley.

Ga., Richland—City, reported, considering paving main business thoroughfare.

Ga., Waynesboro—R. L. Oliver, City Clk., reported, receives bids Apr. 24 to lay 61,800 lin. ft. curb and gutter, 10,515 lin. ft. 10 to 24-in. pipe, 1,000 sq. yd. conc. driveways, 92 catch basins and gutter inlets, manholes, 20,000 cu. yd. excavation; Nisbet Wingfield Co., Inc., Engrs., 812 Marion Bldg., Augusta.

Kentucky—State Highway Comm., Frankfort, plans letting contracts in next 2 or 3 months to surface 21 roads, grade 9 roads, 2 bridges in Lawrence, Floyd, Pike, Letcher, Fleming, Nelson, Calloway, Marshall, Christian, Todd, Henry, Lee, Logan, McCracken, Scott, Trimble, Warren, Adair, Boone, Gallatin, Green, Warren, Hopkins, Muhlenberg, and Hickman Counties.

Ky., Frankfort—Franklin County Fiscal Court, A. A. Hulet, Acting Judge, reported, receives bids Apr. 26 to grade and drain 1.27 mi. Sullivan rd., near Peaks Mill.

Ky., Grayson—Carter County plans road building; sold bonds.

La., Abbeville—Vermillion Parish Police Jury, R. J. Montague, Pres., reported, receives bids Apr. 21 for 15½ mi. hard surface road, Dist. 4.

La., Baton Rouge—W. H. Bynum, Mayor, reported, low bid from Robert Thibodeaux, 1420 Main St., for 5-in. conc. base, 2-in. War-

renite bitulithic topping; M. P. Thiel, for 7-in. monolithic conc., to widen Lafayette Ave., North Blvd. to Laurel St. 3-29

La., Rayville—Town, reported, plans street paving. See Financial News. 4-5

La., Opelousas—St. Landry Parish Police Jury, reported, plans 2 roads: Evangeline Highway, from point near Eraste Frame and Ed Moreau places; Ville Platte Highway from Hazelwood Place.

Maryland—State Roads Comm., Baltimore, receives bids May 1 for 5 roads: Carroll County—1.66 mi. conc., end of Cont. Cl-57, near Asbestos to Baltimore County line, Cont. Cl-70; Queen Annes County—1.68 mi. conc. Steensville toward Love Point, Cont. Q-45; Caroline County—1 mi. conc., Whitesburg to Greensboro, Cont. Co-45; Talbot County—1.45 mi. conc., Tripp's Creek Bridge to Peachblossom Bridge, Cont. T-30; Baltimore County—3.98 mi. conc. shoulders, Philadelphia road, end of Cont. B-39-A, Devil's Elbow, to Whitmarsh.

Maryland—State Roads Comm., Baltimore, received low bids for 9 roads: Washington County—1.48 mi. conc., Boonsboro-Cavetown road, end on Cont. N-46 toward Cavetown, L. R. Wachsche, Thurmont, \$32,996; Frederick County—1.49 mi. conc., Middletown toward Jefferson, M. J. Grove Lime Co., Lime Kiln, \$37,555; 1.25 mi. conc. shoulders, Emmitsburg Pike, Emmitsburg to Penn. State line, John S. Tector, Taneytown, \$10,976; Baltimore City—4 mi. sheet asphalt, Harford road, Richmond to Orlando Ave., P. Flanigan & Sons, Harford road and B. & O. R. R., Baltimore, \$55,198; Queen Annes County—2.11 mi. conc., through Crumpton toward Delaware State line, P. D. Phillips & Bro., Salisbury, \$37,249; Talbot County—1.05 mi. conc. end of Cont. T-26 to Cordova, P. D. Phillips & Bro., \$18,562; Wicomico County—1.12 mi. conc., north of Pittsville to Delaware State line, P. D. Phillips & Bro., \$28,938; Allegany County—7.2 mi. conc. shoulders, Frostburg to Narrows Park, Cumberland Construction Co., Cumberland, \$22,733; Cecil County—3.72 mi. conc. shoulders, Porter's Bridge-Rising Sun road, P. D. Phillips & Bro., \$27,483. 3-29

Maryland—State Roads Comm., Baltimore, receives bids Apr. 24 for 5 roads: Frederick County—7 mi. conc., Liberty rd., Unionville to Carroll County line, Cont. F-111; Baltimore County—4.05 mi. conc., Jacksonville to Harford County line; Sunnybrook toward Warren; Cont. B-86; 1.9 mi. conc. shoulders, Belair rd., Overlea to Putty Hill, Cont. B-77; Anne Arundel County—6.10 mi. conc., Glenburnie to Dorsey, Cont. AA-10; Cecil County—1.47 mi. conc., Reeds Corner to Grindstone, Cont. Ce-66.

Miss., Bay St. Louis—Hancock County, Road Protection Comm., R. C. Engman, Chmn., receives bids May 9 for road protection, Central Ave., Lakeshore, to point near north end of Julia St.; 10,000 cu. yd. excavation, 132,600 sq. yd. rein. conc. paving, 49,850 lin. ft. combined curb and sidewalk.

Miss., Forest—Mayor and Bd. of Aldermen, reported, receive bids May 1 for brick, conc. or asphaltic types paving, grading, curbs, gutters, sewers, water mains, etc.; Massena L. Culley, Engr., First Natl. Bank Bldg., Jackson.

Miss., Hazlehurst—Copiah County Bd. of Supvrs., reported, plans 5 mi. road, Hazlehurst to Rockport; graveling other roads.

Miss., Jackson—Hinds County Bd. of Supvrs., reported, receives bids May 7 for 18,539 mi. state trunk road, Jackson to Yazoo City, 157,097 cu. yd. excavation and borrow, 120,059 lb. rein. steel; bridges over 20-ft. span, 91,830 lb. rein. steel.

Miss., Lexington—Holmes County Bd. of Supvrs., reported, plans gravel road, Lexington to Broxville, to Beat 3 line; sold bonds.

Miss., McComb—Bd. of Mayor and Selectmen, reported, plan 7 to 10 mi. paving, residence section.

Miss., Water Valley—G. R. Wood, City Clk., receives bids Apr. 27 for 3,000 sq. yd. conc. paving, 1,100 lin. ft. integral curb, 3,000 sq. ft. two course sidewalk; J. B. Allen, Engr.

Mo., Ferguson—Ind. Branch, St. Louis—S. G. Case, City Clk., reported, receives bids May 7 to improve Estelle St., Georgia to Julia; Darst Rd., Ellabeth to Hartnett.

Mo., Jefferson City—City Clk. receives bids May 7 for 1,800 cu. yd. excavation, 1,800 sq. yd. stone base, penetration macadam, surface course, 1,950 lin. ft. cement conc. curb and gutter; F. E. Ross, City Engr.

Mo., Kansas City—Matthew S. Murray, Director of Public Works, reported, received low bid from Gray Paving & Material Co., 1927 Vine St., \$10,208, for 8-in. conc. base,

2-in. wearing surface, Prospect Ave., Thirty-first St., Linwood Blvd.

Mo., St. Louis—Bd. of Public Service, reported, receives bids Apr. 24 for 66,610 sq. yd. asphalt and asphaltic conc. paving; W. W. Horner, Engr.

Mo., Shelbyville—Shelby County, reported, plans 25 mi. gravel roads, Clay, Taylor and Jefferson Townships, Monroe County line to Knox County line, \$150,000. See Financial News.

North Carolina—State Highway Comm., Raleigh, reported, receives bids May 1 for 10 gravel or top-soil roads, total 81.06 mi., and bridge approaches: Craven County—grading and structures, Route 10, Jasper to near New Bern; Johnston County—13 mi. clay surface, structures, Sampson County line, near Newton Grove to connect with Route 10, near Smithfield; Warren County—3 mi., Route 50, Virginia line toward Wise; Davidson County—widens 3.76 mi. pavement, 18 to 30 ft., Route 10, High Point to Thomasville; Alamance County—11.5 mi. top soil and structures, Graham to Alamance County line; Cabarrus County—11 mi., Route 151, Graham to Orange County line; Richmond County—8 mi., Route 75, Ellerbe to Montgomery County line; Wilkes County—3.96 mi., Route 67, Wilkesboro to Moravian Falls; Cleveland County—8.8 mi., Route 206, Cleveland Springs to Gaston County line; Moore County—5 mi. gravel, Route 702, Southern Pines to Pinehurst; Davie-Davidson Counties—4 mi. approaches to Yadkin River Bridge, County line, Route 90.

N. C., Durham—City Engr., reported, approved plans for streets, sidewalks, water and sewer in Boulevard Heights development, near Club Blvd.

Okl., Oklahoma City—Ed. L. Sheldon, Chmn., Bd. of Oklahoma County Commrs., reported, plans receiving bids to grade and drain $\frac{1}{2}$ mi. Fourth St., Eastern Ave., east.

South Carolina—State Highway Comm., Columbia, reported, plans surface treatment, 2 roads: 8.6 mi. State Highway 8, Easley to Greenville-Anderson Highway; 9.6 mi. U. S. Highway 176, Cedar Springs, near Spartanburg to Union County line.

South Carolina—State Highway Comm., Columbia, receives bids Apr. 24 for 7 roads, 5 bridges, culvert, underpass: York County—9,209 mi. Route 5, Portland cement conc., Rock Hill to Chester County line; 90,121 sq. yd. $7\frac{1}{2}$ -6-7 $\frac{1}{2}$, 6,600 sq. yd. 8-6 $\frac{1}{2}$ -8, 18-in. Portland cement conc. pavement; Orangeburg-Lexington Counties—7,691 mi. Route 6, North to Swansboro, 18,281 cu. yd. excavation, 81,053 sq. yd. $7\frac{1}{2}$ -6-7 $\frac{1}{2}$, 18-ft. Portland cement conc. paving; Orangeburg County—17,176 mi. Route 6, Orangeburg to North, 40,706 cu. yd. excavation; 180,116 sq. yd. $7\frac{1}{2}$ -6-7 $\frac{1}{2}$, 18-in. Portland cement conc.; Chesterfield County—6 mi. Route 95, grading, sand-clay surface, Chesterfield to N. C. line, 70,100 cu. yd. excavation, 14,766 cu. yd. sand-clay surface, 23,000 lb. rein. steel; Oconee County—5,010 mi. Route 18, grading, claybound macad. Project 635-A to Long Creek, 147,737 cu. yd. excavation, 52,910 sq. yd. clay bound macad., 31,000 lb. rein. steel; Spartanburg County—7,518 mi. Route 10, grading, top-soil surface, Woodruff to Enoree, 42,722 cu. yd. excavation, 23,542 cu. yd. top-soil surface; Chester County—9,386 mi. Route 21, Chester to York County line, 76,102 cu. yd. excavation, 20,177 lb. rein. steel; Bridges: Greenville-Pickens Counties—rein. conc. bridge over Salusa River and Georges Creek, Greenville to Easley, 146,222 lb. rein. steel; Greenville County—2 treated timber, 2 treated timber and steel bridges, Route 20, Gantt to Pelzer, 60,000 lb. struct. steel; Pickens County—triple 12x12-ft. rein. conc. culvert, Route 14, Pickens to Liberty, 13,760 lb. rein. steel; Spartanburg County—rein. conc. underpass, Route 29, under P. & N. tracks, 10,000 lb. rein. steel.

S. C., Charleston—City, Mayor Stoney, reported, plans sidewalk paving on 6 streets.

S. C., Greenville—City Council, reported, plans paving 14 streets; curb, gutter, sidewalks on 23 streets; Dan A. Hulick, City Engr.

S. C., Greenwood—State Highway Dept., reported, plans letting contract in May for 10 mi. Dixie Highway, Greenwood County.

S. C., Spartanburg—Spartanburg County Highway Comm. may sell \$130,000 to \$135,000 bonds for surface treating 13 roads, totaling 39.65 mi.

Tennessee—Dept. of Highways and Public Works, Nashville, surveying road, Nashville to Centerville, through Jingo, Williamson County, connect with Harding pike; plans widening Route 34, Johnson City to Greene County line; considering 11-3 mi. road, Johnson City to new rayon plant.

Tenn., Blountville—Dept. of Highways and

Public Works, Nashville, reported, authorized survey for 30-ft. hard surfaced highway, Bristol to Johnson City, Washington County.

Tenn., Bristol—Bd. of Mayor and Aldermen, reported, considering conc. paving Florida Ave., Spruce and Taylor Sts. extension, Dist. 65 and 66.

Tenn., Carthage—Smith County Court, reported, appropriated funds for detour road, Stonewall to Buffalo Valley, including $2\frac{1}{2}$ mi. road, St. Mary's to Rock Spring churches.

Tenn., Dresden—Dept. of Highways and Public Works, Nashville, reported, plans \$91,600 for road building and maintenance, Weakley County.

Tenn., Knoxville—City Mgr. Roehl, reported, considering widening N. Broadway to 80 ft., from North Broadway underpass, to be built by city, Knox County and Southern Ry., B. Herman, Ch. Engr., Washington, D. C.

Tenn., Knoxville—City, Mgr. Roehl, reported, plans extending Henley St. to Broadway-Western, and widening to 100 ft., Hill Ave. to northern terminus, repave road, build sidewalks, storm and sanitary sewers, water lines, \$500,000. See Financial News. 4-5

Tenn., Nashville—Hilary E. Howse, Mayor, plans widening Third Ave., North, Public Sq. to railroad; W. W. Southgate, City Engr.

Tenn., Paris—Dept. of Highways and Public Works, Nashville, reported, plans graveling 2 roads in Henry County: Murray Route, Paris to Kentucky road; Paris to Camden road, via Big Sandy.

Tenn., Tiptonville—Lake County Hard Road Comm., A. E. Markham, Chmn., reported, receives bids Apr. 20 for 3 mi. gravel, Tiptonville-Bessie Rd.

Texas—State Highway Comm., Austin, reported, appropriated \$200,000 for Highway 23, through Madison County, Leon to Walker; \$117,372, toward surfacing Highway 96, Willacy County, Raymondville to Cameron County line.

Texas—State Highway Comm., Austin, receives bids Apr. 24 for 4 roads: Baylor County—13,203 mi. $2\frac{1}{2}$ -in. bit. macad. surface course on limestone or gravel base course, Highway 23, Seymour to Throckmorton County line; 140,224 sq. yd. bit. macad. surface course, 35,875 cu. yd. soft limestone base course; Tarrant County—8,876 mi. grading, draining, Highway 121, point northeast of Ft. Worth, to Grapevine, 90,769 cu. yd. excavation and borrow, 68,282 lb. rein. steel; Hardeman County—8,903 mi. grading, draining, Highway 5, Quanah to Goodlett, 80,059 cu. yd. excavation and borrow, 108,796 lb. rein. steel; Cameron County—7,854 mi. grading, bridges, Highway 96, near Combes to Willacy County line, 43,719 cu. yd. excavation and borrow, 12,002 lb. rein. steel; timber and conc. bridges, 22,448 lb. rein. steel.

Texas—State Highway Comm., Austin, receives bids Apr. 24 for one course asphalt surface treatment, on 6 roads: Schleicher and Sutton Counties—402,274 sq. yd., on 29.95 mi. Highway 27, Sonora to Llano River, west of Kimble County; 17.5 mi. Highway 30, Sonora, north; Kerr-Kimble Counties—382,515 sq. yd. 39 mi. Highway 27, Junction to Mountain Home; 18 mi. northwest to Kerrville; Coleman County—642,103 sq. yd., 17.18 mi. Highway 7, Brown County line, through Santa Anna; 43.12 mi. Highway 23, Runnels County, through Coleman; Taylor County—119,540 sq. yd., 11.32 mi. Highway 7, Tuscola to Coleman County line.

Texas—State Highway Comm., Austin, receives bids Apr. 24 for 3 roads: Dimmitt County—8.90 mi. grading, bridges, Highway 55, point southeast Asherton to point west of Catarina; 9,549 mi. grading, bridges, Highway 55, from point southeast of Carrizo Springs through Asherton, \$50,000; Marion County—20.55 mi. iron ore top soil surface, Highway 49, Jefferson to Louisiana State line.

Tex., Abilene—Taylor County, Tom K. Eplen, Judge, plans 10,380 mi. conc. Highway 1, Abilene to Fed. Aid Proj. 77.

Tex., Anson—Jones County, Owen Thomas, Judge, plans 15,265 mi. gravel and stone base, bit. top, Highway 18, Shackelford County line to Stamford.

Tex., Brady—City may let contract soon for 33 blocks paving.

Tex., Brownsville—Cameron County, Oscar C. Dancy, Judge, plans 7,854 mi. grading, bridges, Highway 96, South of Combes to Willacy County line, \$101,500.

Tex., Columbus—Colorado County Commrs., considering widening Old Spanish Trail to 80 ft. through county.

Tex., Comanche—Comanche County, R. A. Luker, Judge, plans 9,667 mi. grading,

bridges, Highway 10, Comanche to Brown County line.

Tex., Conroe—Montgomery County, W. H. Lee, Judge, reported, plans letting contract June 15 for 2 roads: 17 mi. grading, drainage, Highway 35; 25 mi. grading, bridges, Highway 105; J. R. Spiller, Res. Engr., in charge. 4-12

Tex., Corpus Christi—State Highway Comm., Austin, reported, appropriated \$22,000 for 1 mi. Highway 16 to Corpus Christi; City extend Ages St. to connect; \$20,000, toward 5 mi. Highway 12-A, through Aguadulce, Nueces County. 3-29

Tex., Dallas—Dallas County, F. H. Alexander, Judge, reported, plans 29 roads, 155½ mi. improvements, and 28.8 mi. new work; 8 bridges, culverts, underpass; \$6,950,000 available. 3-29

Tex., Edna—Jackson County, Jno. T. Vance, Judge, plans 4.153 mi. grading, bridges, Highway 12, Wharton County line to Ganado. 3-29

Tex., Floydada—City, reported, receives bids Apr. 27 for 60,000 sq. yd. paving; G. A. Linder, City Engr. 3-15

Tex., Fort Worth—O. E. Carr, City Mgr., reported, plans widening S. Main St. to 54 ft., Rio Grande to Morphy, at St. Joseph's Infirmary; plans selling certificates. 3-15

Tex., Fort Worth—State Highway Comm., Austin, reported, receives bids Apr. 24 for grading, draining, Grapevine road, 80-ft. right-of-way, 30-ft. roadbed, 20-ft. surfacing. 3-29

Tex., Garland—C. S. Nelson, Mayor, reported, plans paving and graveling outer Blvd. around city. 3-29

Tex., George West—Live Oak County plans \$800,000 for hard surface road north and south through county, and lateral roads. See Financial News. 3-29

Tex., Houston—Harris County Commrs. Court, H. L. Washburn, Auditor, reported, receives bids May 7 to gravel Long Drive Ave. 4-12

Tex., Houston—City, W. A. Moore, Sec., reported, paving Yale St., Twenty-second to Washington; J. C. McVea, Engr. 4-12

Tex., Johnson City—Blanco County, reported, plans Airline Highway 108, through county, Johnson City to Burnet County, \$140,000 available. 3-29

Tex., Kaufman—Kaufman County, reported, plans \$30,000 road building. See Financial News. 3-29

Tex., Laredo—Webb County Commrs. considering 1½ mi. hard surface road from main Laredo-Corpus Christi road into Mirando City; gravel road to Jim Hogg County line. 3-29

Tex., Lufkin—City Commrs., reported, plan street paving, including Mantooth Ave.; \$500,000 available. 3-29

Tex., Memphis—Hall County, A. C. Hoffman, Judge, plans 2.033 mi. conc. Highway 5, Estelline to Childress County line, \$64,000. 3-29

Tex., Marlin—Falls County, W. S. Hunnicut, Judge, plans 6.367 mi. gravel base, bit. top, Highway 108-A, Highway 44 to Barclay. 3-29

Tex., Paducah—Cottle County, James M. Whitley, Judge, plans 16.587 mi. grading, bridges, Highway 28, Foard County line to Paducah. 3-29

Tex., Panhandle—Carson County, A. A. Callaghan, Judge, plans 2 roads: 14.358 mi. conc. Highway 33, northeast of Panhandle to Gray County line; 9.830 mi. grading, bridges, St. Francis to point southeast of Panhandle. 3-29

Tex., Plainview—Hale County, Geo. L. Mayfield, Judge, plans 8.55 mi. grading, bridges, Highway 9, Plainview to Swisher County line; also plans 16.287 mi. grading, bridges, Highway 9, Abernathy to Hale Center. 3-29

Tex., Quanah—Hardeman County, J. E. Wiley, Judge, plans 8.371 mi. grading, bridges, Highway 25, Quanah to Goodlett. 3-29

Tex., Richmond—Fort Bend County, W. I. McFarlane, Judge, plans 15.955 mi. grading, bridges, Highway 3, Houston-San Antonio Rd., Wharton County line to Rosenberg. 3-29

Tex., Rockdale—City Council, reported, plans \$100,000, building and improving roads, streets and bridges. See Financial News. 3-29

Tex., San Marcos—State Highway Comm., Austin, reported, plans 4 mi. airline highway through Hays County, connect with Guadalupe County route. 3-29

Tex., Sanderson—Terrell County, G. L. Henshaw, Judge, plans 2.197 mi. grading, bridges, Highway 82. 3-29

Tex., Sherman—Grayson County, R. M. Carter, Judge, plans 7.097 mi. grading and bridges, Highway 6, Sherman to Denison, \$64,300. 3-29

* Tex., Sherman—State Highway Comm., Austin, reported, receives bids Apr. 24 for bridges, grading and culverts, Highway 6, Red River to Collin County line, Grayson County; R. M. Carte, County Judge. 3-29

Tex., Sweetwater—Nolan County, A. S. Mauzey, Judge, plans 9.098 mi. caliche base, bit. macad. top, Highway 7, Roscoe to Scurry County line, \$175,000. 3-29

Tex., Temple—City, G. E. Byars, Mgr., plans \$60,000 street paving. See Financial News. 3-29

Tex., Uvalde—Uvalde County, Green B. Fenley, Jr., Judge, plans 9.662 mi. grading, bridges, Highway 53, Uvalde city limits to Zavalla County line, \$38,300. 3-29

Tex., Victoria—State Highway Comm., Austin, reported, considering Highway 12 thru Victoria County; P. P. Putney, County Judge. 3-29

Tex., Waxahachie—Ellis County, H. R. Stovall, Judge, plans 8.765 mi. conc. Highway 6, Waxahachie to Forrester. 3-29

Tex., Wharton—Wharton County, John Norris, Judge, plans 12.446 mi. 18-ft. conc. Highway 12, Jackson County line to El Campo. 3-29

Virginia—State Highway Comm., Richmond, receives bids May 3 for 6 roads, \$500,000: Lunenburg County—5.621 mi. conc., Route 323, city limits of Victoria to point west of Kenbridge; Giles County—5.515 mi. rock asphalt, Route 23, point west of Montgomery County line to Hoge's Store, alternate bids, bit. macadam, cold mix bit. conc.; Franklin County—7.8 mi. rock asphalt, south of Rocky Mount, south; alternate bids, bit. macadam, cold mix bit. conc.; 3 mi. soil road, approaches to Norfolk and Western overhead crossings, east of Blackstone, Route 10; Dinwiddie County—approaches to Norfolk and Western underpass, near Sutherland, to Norfolk and Western overhead crossing, Hebron. 3-29

Va., Portsmouth—Frank C. Hanrahan, City Mgr., reported, plans paving, curbs, sidewalks, Chestnut St., Gosport rd. to George Washington Highway. 3-29

Va., Richmond—R. Keith Compton, Dir. of Public Works, reported, receives bids Apr. 23 to grade, gravel, curb and gutter Bellevue Ave.; curb and gutter, only Fauquier; grade and gravel, only, North Side Ave. 3-29

Va., Richmond—State Highway Comm., reported, widen highway 30 ft., between Richmond and Williamsburg. 3-29

Va., Suffolk—City and Paul Stone, representing Gowrie Park, reported, considering paving Blair Ave. in Park. 3-29

W. Va., Charleston—Kanawha County, reported, considering \$125,000, for river road, Dunbar to Nitro, and 7 roads in hill part of dist. See Financial News. 4-5

W. Va., Middlebourne—Henry Theiss, Mayor, reported, plans \$13,000 street work. See Financial News. 4-5

W. Va., Parkersburg—Wood County Court, reported, considering widening River Rd., 14 to 20 ft., with conc., Twenty-first St. and Murdoch Ave., to Smith Ave.; raise shoulders 2-in. above present brick paving; asphaltum preparation over bricks to conc. level. 3-29

W. Va., Parkersburg—School Bd. receives bids in 30 days, to hard surface streets, St. Mary's Pike to Snakeville road. 3-29

W. Va., Princeton—Mercer County Court, reported, plans rock base, shale surface, Princeton to Ingleside Rd.; County Engr. make survey for Jugneck Rd. north side of N. & W. R. R., Ada, to C. W. Mills' place, eliminate grade crossing at Ada. 3-29

W. Va., Princeton—Mercer County Court receives bids Apr. 28 to grade and drain 5.4 mi. Oakvale-Glenlyn rd., 128,050 cu. yds. excavation, 5,000 lbs. rein. steel; C. E. Allen, County Road Engr. 3-29

W. Va., Weston—Lewis County Court, reported, plans River road, above Weston, Brownsville to Carrion Run. 3-29

Contracts Awarded

Alabama—State Highway Comm., Montgomery, reported, let contracts, \$82,350, for road machinery: 10 caterpillar tractors, 5 to Southern Tractor Co., Montgomery; 5 to Smith-Pittman Tractor Co., Birmingham; 2 long Thew shovels, gas engine operated, and 26 Watson dump wagons, Young & Vann, 1731 First Ave., Birmingham; 20 road machines, G. C. Phillips Tractor Co., 1625 Ave. B, Birmingham; 5 heavy road machines, J. D. Adams & Co., 20 Adams St., Memphis, Tenn. 3-29

Ala., Birmingham—City Comm., reported, let contracts, \$111,211 for paving and sewers: H. N. Bowdry, Ala. Powder Bldg., Dun Construction Co., Charm. Com. Bldg., Morgan-Hill Paving Co., Woodward Bldg., 3-29

all Birmingham: John Hamm Construction Co., Wesco Co., Fromhold Bros.; for paving: J. J. Goddard, 436 Powell St., Birmingham, C. M. Burkhalter; for sewers. 3-29

Ala., Opelika—State Highway Comm., Montgomery, reported, let contract to Interstate Contracting Co., Brewton, \$18,304, for conc. paving, College, Magnolia and Thach Ave., Auburn, Lee County. 3-29

Ark., West Helena, Ind. Branch, Helena—Hogan Construction Co., reported, has contract, \$35,000, for surface, curb, 9 blocks paving, storm sewers, in Dist. 1 and 2. 3-29

Fla., Daytona Beach—Bd. of Trustees, Ocean Share Improvement Dist., reported, let contract to Stidham & Hughes, Lakeland, \$20,425, for ¾-mi. rebuilding and paving Ocean Shore Blvd., in city, rock base, Kentucky asphalt. 3-22

Ga., Hoboken—City, reported, let contract to M. M. Jarvis, for 3 blocks conc. curbing, business section. 3-22

Ky., Franklin—P. E. Lewis, Mayor, let contract to McClellan & Campbell Co., Bowling Green, \$60,000, for 17,275 sq. yd. asphalt on macad. paving, conc. curb and gutter. 3-22

Ky., Louisville—Bd. of Park Commrs., reported, let contract to Andrews Asphalt Paving Co., Inter-Sou Bldg., \$18,889, for Western Parkway, Market St. to Shawnee Park. 3-22

Md., Baltimore—Bureau of Highways, let Cont. 454 to Gudelsky & Marter, 4400 Vesta Ave., \$22,728; 10,800 sq. yd. conc. paving, 2800 lin. ft. curb, 3650 yd. excavation. 3-29

Miss., Carthage—Leake County Bd. of Supvrs., reported, let contract to Allen Bros., \$14,000, for highway across Dist. 4, Carthage to Canton highway west of Carthage. 3-29

Miss., Coffeeville—Sam B. Boyd, Columbus, reported, has contract for 7 mi. gravel, Coffeeville to Oakland road, Yalobusha County. 3-29

Miss., Columbia—Bd. of Aldermen, reported, let contract to Southern Clay Paving Co., Vol. St. Life Bldg., Chattanooga, Tenn., \$16,000, for vit. brick paving, curb, storm sewers, Courthouse Square. 3-29

Miss., Pontotoc—State Highway Comm., Jackson, and Pontotoc County Bd. of Supvrs., reported, let contract to Nixon & Phillips, Birmingham, Ala., \$46,000, to complete roadbed, conc. bridges, culverts, across Pontotoc County, point west of Pontotoc to Lafayette County line, near Toccoola. 3-29

Missouri—State Highway Comm., Jefferson City, let contracts for 19 roads: Andrew County—4.922, 4.969, 2.665 mi. 30-ft. earth, Route 71, E. W. Kolterman, Omaha, Neb.; Nodaway County—4.681 mi. 30-ft. earth, Route 71, E. W. Kolterman; Osage County—3.040 mi. gravel, Route 50, H. A. Worman, Pittsfield, Ill.; Caldwell County—4.371, 3.668, 4.077 mi. 18-ft. conc., Route 36, Koss Construction Co., Des Moines, Iowa; Boone County—2.516 mi. 30-ft. earth, Route 63, L. W. Spengler, Kansas City; Crawford County—1.706 mi. 30-ft. earth, Route 66, M. E. Gillioz, Monett; Phelps County—4.741, 4.216, 4.330 mi. 30-ft. earth, Route 66, M. E. Gillioz; Pettis County—2.059, 4.174, 4.209 mi. 30-ft. earth, Route 65, V. E. Koch, Joplin; Callaway County—3.004 mi. 18-ft. conc., Route 54, Pope Construction Co., Jefferson City; Cass County—3.511 mi. 18-ft. conc., Route 7, E. D. Tyler Construction Co., Kansas City; Cape Girardeau County—2.793 mi. 9-ft. conc., 7-ft. gravel, Route 25, C. H. Atkinson, Watertown, S. Dakota. 3-8

Mo., Columbia—T. C. Boyd, reported, has contract to grade and gravel McBaine Ave. 3-29

Mo., St. Louis—Bd. of Public Service, reported, let contracts, \$189,059, to pave 8 streets: Granite-Bituminous Paving Co., Louisiana Ave., bitulithic; Webb-Boone Paving Co., Columbia, Brannon, Wise Ave., Amie-site. 3-29

Mo., Sedalia—Pettis County Court, reported, let contract for 2 roads, L. L. McClure, Kansas City, \$2.90 mi. cu. yd., 12 mi. gravel, Longwood Dist.; J. H. Stevens, Clarksburg, \$2.15 cu. yd., 7 mi. Heath's Creek Dist. 3-29

Okla., Miami—Taylor & Allison, Chanute, Kan., reported, has contract to pave U. S. Highway 66, Ottawa County, Main St., Baxter Springs, Kan., to Oklahoma line, near Quapaw. 3-29

S. C., Columbia—State Highway Dept., let contract to Carolina Concrete Pipe Co., Columbia, and Charlotte, N. C., to furnish conc. culvert pipe for road projects to be awarded in Apr., May, June, July, Aug. 3-29

Tennessee—Dept. of Highways and Public Works, Nashville, reported, let contracts to Cross-Leonard Co., Kingsport, for 2 roads: Unicoi County—9.381 mi. Highway 36, Erwin to Carter County line, \$130,568; Cocke County—9.8 mi. Highway 9, point east of Newport to North Carolina line, \$163,761. 3-29

Tex., Amarillo—County let contract to Texas Sand & Gravel Co., 200 Tyler St., \$1.77 cu. yd. to furnish gravel for 1.71 mi. gravel surface road; C. Keller, 16 cents, cu. yd. for earthwork; later plans surface treating, 2 course penetration, treatment top.

Tex., Houston—Harris County Navigation Dist. Comm., let contract to W. M. Burnet, for conc. road. 3-29

Tex., Pampa—F. M. Gwin, City Mgr., reported, let contract to Stuckey Construction Co., Wichita Falls, \$180,000, for 28 blocks 3-in. paving. 4-5

Tex., Plainview—City Council, reported, let contract to Irick Construction Co., \$2.58 sq. yd. for paving, 50 cents cu. yd. for excavation, to pave alley, West Seventh to Eighth, Broadway to Austin St.

Tex., San Antonio—C. H. Chambers, Mayor, reported, let contract to Southwestern Bitulthic Co., 711 Gunter Bldg., to pave Stumberg St. and South Main Ave.

Va., Portsmouth—F. J. McGuire, Bkrs. Tr. Bldg., Norfolk, reported, has contract to conc. Gosport road, Elm Ave. to Norfolk County line, then to Alexander.

Va., Richmond—State Highway Comm., let contract to Standard Oil Co., New York, 18 cents gal., for 424,000 gal. gasoline; Power Oil Co., Lynchburg, 17.49 cents gal., for 70,000 gal.; American Oil Co., American Bldg., Baltimore, 36 to 42 cents gal., 33,500 gal. lubricating oil.

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Birmingham—See Roads, Streets, Paving.

Ala., Opelika—City, reported, will exercise option to purchase property of Opelika Sewer Co. 3-1

Ark., Little Rock—See Roads, Streets, Paving.

Ark., West Helena, Ind. Branch, Helena—See Roads, Streets, Paving.

D. C., Washington—Dist. Commrs. receive bids Apr. 25 for sewage pumping equipment. See Want Section—Bids Asked.

Ga., Moultrie—See Water Works.

Ga., Moultrie—Huber Construction Co. has contract at \$30,000 for 3000 ft. 6-in., 3000 ft. 8-in. sewer extension and 10,300 ft. 6-in. water main; O. H. Lang, Engr. See Want Section—Machinery and Supplies. 4-5

Ga., Waynesboro—See Roads, Streets, Paving.

La., Baton Rouge—City voted \$180,000 sewer bonds; begin construction about July 1.

La., Baton Rouge—City voted \$180,000 sewer bonds. 3-8

Md., Baltimore—Bd. of Awards receives bids Apr. 25 for installing pump. See Want Section—Bids Asked.

Miss., Columbia—See Roads, Streets, Paving.

Miss., Forest—See Roads, Streets, Paving.

Mo., Independence—Bd. of Supvr., Jackson County Sewer Dist., No. 1, reported, let contract to Charles A. Haskins, 633 W. 60th St. Terr., and E. T. Archer, 609 New England Bldg., Kansas City, for survey of proposed sewer district between Independence and Kansas City.

Miss., Port Gibson—City, reported, install sewer system.

Mo., Moberly—City votes May 1 on sewer, electric light, bathing beach and playground bonds. 3-29

Mo., St. Joseph—City rejected bids for granite repairs on Brookdale main sewer. 4-12

Mo., St. Louis—Riley Cont. Co., 110 N. Seventh St., reported, low bidder for Sec. B-2 Western Mill Creek public relief sewers.

Mo., St. Louis—Bd. of Public Service receives bids May 1 for sewers. See Want Section—Bids Asked.

Okla., Lawton—City, reported, voted \$115,000 sewer bonds.

Okla., Oklahoma City—B. M. Hart, City Engr., advises \$2,424,000 will be spent during year on storm water sewers and \$250,000 for sanitary main sewer extensions; work to be let in 15 or 20 contracts; start in 30 days; bids to be called for as soon as plans and

specifications can be prepared for each. 3-22

Tenn., Centerville—See Water Works.

Tenn., Memphis—City received low bid for sewer work, Highland Heights, from W. B. Carter, Sioux City, Ia.; let contract for yr.'s supply materials and equipment for engineering dept.; concrete curbing, gutters, sidewalks from H. E. Brooks, 127 Monroe St.; concrete piping, Shearman Concrete Pipe Co., 201 W. Clinch St., Knoxville; refined tar, F. J. Lewis Manufacturing Co., 2500 S. Robey St., Chicago; 1100 tons coal, West Kentucky Coal Co., Sturgis, Ky.; sand and gravel, John A. Denie Sons, 373 Adams St.; Memphis Lime & Cement Co., 2128 Central St.; Missouri Portland Cement Co., 953 Linden St.; Central Portland Cement Co., Wolf River Sand & Gravel Co., Falls Bldg.; concrete and road gravel, Camden Gravel Co., 2069 Walnut St.; John A. Denie and Memphis Stone & Gravel Co., Exchange Bldg., all Memphis.

Tenn., Nashville—Bd. of Public Works, reported, authorized trunk line sanitary sewer to serve Sunset Park in Hillsboro Rd. section.

Tex., Amarillo—Frank Parrott, Tucson, Ariz., low bidder at \$121,000 for sewage disposal plant; Wynkoop Kiersted, Const. Engrs., 614 Interstate St., Kansas City, Mo. 3-22

Tex., Fort Worth—City, reported, will have plans and specification ready for bids in June on \$800,000 sewage disposal plant addition; Hawley & Freese, 411 Capps Bldg., Engrs. 2-9

Tex., Freeport—City receives bids Apr. 24 for sewers. See Want Section—Bids Asked.

Tex., Hemphill—See Water Works.

Tex., Houston—City, reported, rejected bids for Leeland and Bell Ave. sewers.

Tex., Nacogdoches—James Contracting Co., 806 Trunk St., Dallas, reported, has contract for sewage disposal plant. 3-22

Tex., Somerville—City, reported, let contract to E. L. Dalton, Wilson Bldg., Dallas, for sewer system.

Va., Christiansburg—J. B. McCrary Engineering Corp., Atlanta, Ga., design and supervise installation sewer system.

Va., Richmond—Advisory Bd., reported, let following contracts in connection with \$500,000 sewer work: C. P. Lathrop & Co., Spottswood and Leigh Sts., Richmond, at \$93,200 for cement; Lockjoint Pipe Co., Ampere, N. J., at \$33,000, for pre-cast rein. conc. pipe; Fulton Brick Works, Fifth and Main Sts., Richmond, at \$8000, for sewer brick; Boston Machine and Foundry Co., South Boston, Va., at \$35,000, for castings.

Va., Roanoke—W. P. Hunter, City Mgr., reported, plans sewers in Wasena and Morningside Heights.

W. Va., Huntington—Bd. of Commrs. receive bids Apr. 30 for sewers. See Want Section—Bids Asked.

W. Va., Huntington—City, reported, authorized sanitary sewers on Sycamore and 14th Sts.

W. Va., Huntington—City Comm., reported, authorized 2 sanitary sewer projects.

Telephone Systems

Ky., Hazard—J. R. Edwards & Co., 303 Dixie Term. Bldg., Cincinnati, O., reported, acquired Hazard Telephone Co.

Tex., San Marcos—San Marcos Telephone Co., Berton Swift, Mgr., reported, erect \$10,000 building; rein. conc.

Va., Doswell—Campbell-Terrell Telephone Co., Inc., reported, extend line to Taylorsville.

Va., Rockymount—Fisher Telephone Co., reported, formed by merger of Franklin Telephone Co., Rockymount, and Stuart Telephone Co., Stuart.

Textile Mills

Ala., Clanton—Alabama Mills Co., Birmingham, reported, erect mill unit, including sprinkler systems, tanks, towers, steel reservoir, fire pumps, heating system, etc.; brick walls, comp. roofing, conc. and wood floors; Robert & Co., Inc., Engrs., Atlanta, Ga.; Batson-Cook Co., Contr., West Point, Ga.

Ala., Huntsville—Regarding recent reports current that Lincoln Mills of Alabama, 52 Chauncy St., Boston, Mass., would construct unit No. 5 and about 600 employees dwellings, company advises it has completed all of mill buildings which it proposes to build for long time to come, also purchased all machinery mills will require; will erect during summer about 150 4-room and 6-room employees' houses; have a small finishing plant in Kenyon, R. I. used for waterproof-

ing and striping part of products of Lincoln Mills and will eventually move to the South but time not definite.

Ala., Huntsville—Erwin Manufacturing Co., reported, construct addition for yarn mill in W. Huntsville; 152x175 ft.; brick; \$100,000.

Ala., Scottsboro—Scottsboro Manufacturing Co., capital \$50,000, incorporated; C. E. Spivey, J. C. Jacobs; erect \$10,000 chenille, oval and rag rug mill; 60x150 ft.; install 25 looms. 4-12. See Want Section—Machinery and Supplies.

Ga., Brunswick—Burcot Products Co. incorporated; Paul J. Varner, Brunswick; Frank W. Van Ness, New York; establish plant for manufacture substitute for burlap from low grade cotton; annual output 6,000,000 yds.; located in 6 buildings of picric acid plant; install machinery.

Ga., Dalton—Barrett Construction Co., Dalton, reported, low bidder on mill unit for Westcott Hosiery Mill; Lockwood, Greene & Co., Engrs., Charlotte. 3-29

Ga., Savannah—Olaf Otto, Arcade Bldg., reported, has contract for improvements to plant of Southeastern Mfg. Co., 52nd St., for Ludlow-Georgia Bagging Co. on Montgomery St.; change interior of building, install elevator; later Ludlow-Georgia Co. may erect buildings on 5-acre tract. 4-12

Md., Frostburg—Parker Hosiery Mills, owned by Harry A. V. Parker, Portsmouth, Va., reported, install 30 machines for manufacture children's hosiery, increase output 1,000 doz. prs. daily.

N. C., Asheboro—Bossong Hosiery Mills, Inc., let contract to Owen Construction Co., Greensboro, for 1 story, saw-tooth plant, dye house and boiler room; floor space of both buildings 13,000 sq. ft.

N. C., Hickory—Hickory Weavers, Inc., acquired site on Brookford Rd., soon let contract for tapestry upholstery plant; machinery and equipment purchased. 4-12

N. C., Marlon—W. K. M. Gilkey, reported, has building, install 20 banner diagonal machines, manufacture boys' fancy golf hose.

N. C., Wadesboro—H. B. Allen, Pres., Allen Milling Co., reported, acquired entire property of Singleton Silk Co., including 35 acres, land, houses, mill building and machinery.

South Carolina—Stockholders of Toxaway Mills, Anderson, vote Apr. 25 on consolidation of Williamston Mills, Riverside Manufacturing Co., Toxaway Mills, Ladleside Mills and Gossett Dyeing and Finishing Co. into Gossett Mills. 3-15

S. C., Greenville—Southern Pile Fabric Co., capital \$10,000, incorporated; Marshall A. Brooks, Philadelphia, Pa., Pres.

S. C., Hartsville—Hartsville Bleachery, Inc., let contract to A. K. Adams & Co., Walton Bldg., for bleaching, finishing and dyeing cotton piece goods and rayon plant; Robert & Co., Engrs., Bona Allen Bldg., both Atlanta, Ga. 4-5

S. C., Pelham—Pelham Manufacturing Co., reported, negotiating for Jenkins Mill.

S. C., Spartanburg—Powell Knitting Co., reported, let following subcontracts for \$175,000 addition, Lockwood, Greene & Co., Engrs., Charlotte, N. C.; to R. D. Cole Mfg. Co., Newnan, Ga., for suspended water tank, capacity 125,000 gal.; Crawford & Slaton, Atlanta, Ga., for fire protection, sprinklers and outside facilities; Weekly Elevator Co., 447 Edgewood Ave., Atlanta, Ga., for elevator. 3-29

S. C., Spartanburg—Fiske-Carter Construction Co. has contract for Yarns Corporation of America mill; Lockwood, Greene & Co., Engrs., Charlotte, N. C.; Builders Roofing Co., Spartanburg, for roofing. 3-15

Tenn., Knoxville—W. P. Toms, 600 E. Fifth Ave., and Chamber of Commerce, reported, negotiating with Philadelphia company for establishing full fashioned hosiery mill.

Tenn., Loudon—Charles H. Bacon, Newport, reported, establish full fashioned silk hosiery mill.

Va., Covington—Industrial Rayon Corp., Cleveland, O., reported, begin work at once on \$10,000,000 rayon plant, junction Jackson River and Potts Creek; initial capacity 6,000,000 lbs. rayon annually; use Virginia wood pulp; \$1,000,000 housing facilities for employees provided by local capitalists; Robt. H. Angell, Roanoke, in charge of this phase of work; finance through sale of stock to existing stockholders; J. E. Sistrine & Co., Engrs., Greenville, S. C. 2-16

W. Va., Bluefield—Chamber of Commerce, Conrad Brevicek, Sec., reported, secured lease on Stovall Bldg., Chestnut and Rogers St., for textile mill for outside capitalists.

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ga., Moultrie — Huber Construction Co., Moultrie, has contract for water and sewer extensions; O. H. Lang, Engr. 4-5

La., Palmetto—City, reported, votes May 15 on \$13,500 water bonds.

Ky., Bowling Green—Spotts & Malcolm, 222 Lathrop Bldg., Kansas City, Mo., Contrs., for \$185,000 water works plant (exclusive of pumps, standpipes and distribution system); receiving bids for switchboards, traveling screens, cranes, hoists, modern filter equipment, electric elevator, conveyor. 4-5

Miss., Calhoun City—City, reported, call for bids in May on \$25,000 water system. 3-29

Miss., Forest—See Roads, Streets, Paving.

Miss., Meridian—City, reported, let contract to Crane Co., Birmingham, for valve; American Cast Iron Pipe Co., Birmingham, pipe; Michigan Valve Co., 3631 Parkinson St., Detroit, Mich., fire hydrants. 3-1

Mo., New London—City, reported, defeated \$75,000 bond issue. 3-15

Mo., St. Louis—Bd. of Public Works receives bids Apr. 24 for piping and auxiliaries. See Want Section—Bids Asked.

Mo., Steelville—City, reported, votes Apr. 24 on \$75,000 water bonds. 3-8

Okla., Asher—City, reported, voted \$24,000 water bonds. 4-12

Okla., Britton—Town, D. A. Riley, Clk., advises do not contemplate any water works improvements. 4-12

Okla., Oklahoma City—City, reported, opens bids May 8 for water conduit. 3-1

Tenn., Centerville—City votes Apr. 26 on water and sewer bonds. See Financial News.

Tex., Floydada—D. L. McDonald, Hereford, reported, has contract for water wells.

Tex., Hemphill—City, reported, install water and sewer system.

Tex., Houston—Southern Engine and Pump Co., 615 Washington St., reported, has contract for complete water system in Bay-side Terrace subdivision.

Va., Bedford—James A. Waller, Jr., Agr. Engr., Blacksburg, and S. S. Hylton, Bedford County Agt., Bedford, interested in domestic water supply systems for large number of farms.

Va., Boydton—Town, reported, votes soon on installing water system.

Va., Richmond—South Boston Machine & Foundry Co., South Boston, has contract to furnish city with street castings for one year, beginning Apr. 16, 1928.

West Virginia—P. W. Chapman & Co., Inc., 42 Cedar St., New York, offering \$2,500,000 5½% gold debentures, Series B of Community Water Service Co.; controls and serves water companies in New York, West Virginia, Kentucky.

W. Va., Mannington—City receives bids Apr. 24 for machinery contracts for water works. See Want Section—Bids Asked.

W. Va., Sophia—Town, reported, votes in May on water bonds.

Woodworking Plants

Ga., Savannah—Quartermen & Ellis, Inc., reported, leased warehouse and yard space, Louisville Rd.; install machinery to manufacture frames and cabinet work.

Miss., Water Valley—Water Valley Cooperage Co., reported, erect cooperage mill.

Mo., Kansas City—Imperial Casket Co., T. R. Snyder, Pres., 1415 St. Louis Ave., reported, let contract to W. K. Martin, Dwight Bldg., for \$40,000 factory; brick, 2 stories; W. J. Koch, Archt., 207 Mutual Bldg.

N. C., Burlington—Refinishing Furniture, etc.—Burlington Novelty Shop, Inc., O. G. Thompson, Pres., 702 Rainey St., erect building; 30x60 ft., wood and metal. See Want Section—Miscellaneous. 4-12

N. C., Sanford—Makepeace Mill Work Co. let contract to Jewell-Riddle for 60x150-ft. fireproof plant, Weller St.

Okla., Enid—Thorne Cabinet Co., reported, erect \$25,000 building; brick, rein. steel, 50x100 ft.

Tex., Dallas—Dallas Cooperage & Woodware Co., capital \$171,300, incorporated; John R. Kivlen, 2505 Maple St.

Tex., Dallas—Texas Oak Flooring Co., capital \$300,000, incorporated; J. R. Neece, Jr., 3716 Gilliam St.

FIRE DAMAGE

Ark., Hot Springs National Park—Rosen-thal Bldg., 628 Central Ave., Harry P. Rosen-thal, owner; loss \$20,000.

Ark., Jacksonville—Main bldg., Arkansas Farm for Women, near Jacksonville. Address The Supt.

Ark., Tulot—C. A. James Timber Co.'s mill; loss \$36,000.

Ky., Cynthiana—Brannock & Brannock plumbing shop, Kentucky Utilities Co.'s building, etc.; loss \$40,000.

Ky., Horse Cave—L. L. Patton's livery stables, Masonic Bldg., W. C. Stewart's warehouse, Whitney Transfer Co.; loss \$25,000.

La., New Orleans—J. P. Rausch Co.'s building; A. H. White Roofing Co.'s store.

La., Simmesport—S. Carter's residence, 3 additional dwellings Masonic Lodge Hall, Baptist Church, Magee Hotel; store; loss \$75,000.

Md., Elkton—Victory Sparkler and Specialty Co.'s building; loss \$10,000.

Md., Hagerstown—Hotel at Black Rock owned by Aca Stottlemeyer.

Miss., Biloxi—Biloxi Shell Grit Co.'s building; T. H. Cook, owner.

Miss., Carrollton—Majestic Theater, owned by W. H. Johnston; Hooks Bros.' blacksmith shop.

Mo., Brookfield—Jas. A. Burton's residence; loss \$10,000.

Mo., Sweet Springs—Wylie Bros.' store; Chappell Cafe; Sweet Springs Telephone Exchange; loss \$15,000.

N. C., New Bern—Coca Cola Co.'s plant; loss \$15,000; Geo. H. Hutaff, owner, 617 Market St., Wilmington.

N. C., Red Oak—Cotton gin, sawmill and grist mill owned by J. T. Jones and Son; loss \$15,000.

N. C., Windsor—Cashie River Line and Powell & Stokes warehouse; loss \$15,000.

N. C., Wendell—Buildings of Warsaw Motor Co., Branch Banking and Trust Co. and others; loss \$25,000.

S. C., Anderson—Building on W. Bennett St., occupied by Gates & Smith, American Cafe and J. Lon McGee; loss \$15,000.

S. C., Ridgeland—Mears Hotel, operated by Mrs. Mary Mears; G. L. Langford's residence.

Tenn., Atwood—Mrs. Ella Martin's residence.

Tenn., Knoxville—Standard Glass Co.'s building, W. Depot Ave. and Broadway.

Tenn., Martin—American Milling Co.'s plant; loss \$10,000.

Tenn., Nashville—John Sneed's residence, 4 additional dwellings and Melrose Filling Station, all 2500 block Nolensville Rd., Flat Rock; loss \$30,000.

Tex., Denison—Mrs. A. F. Selcer's residence, 806 S. Houston Ave.

Tex., Houston—J. J. Tamborello's residence, 1300 block Conti St.

Tex., Orange—Yellow Pine Paper Mill's fuel house.

Tex., Port Arthur—Coke treating plant of Texas Co.'s refinery.

Va., Orange—L. Willis, Jr.'s, building; loss \$20,000.

Va., Portsmouth—South Mills Mfg. Co.'s building; loss \$40,000.

W. Va., Ripley—O. P. Oldham's building; W. R. Rader's livery stable; loss \$15,000.

W. Va., Wheeling—Webster Grocery store recently reported burned at Wheeling is at St. Clairsville, Ohio. 4-12

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ark., Little Rock—State Young Men's Christian Assn., John R. Hampton, Chmn., Ark. Exec. Comm., soon inaugurate \$90,000 campaign for additional bldgs. and equipment for camp and conference site, Petit Jean Mountain, Conway County; Geo. Whittenberg, Archt., Little Rock.

Miss., Greenwood—Kessler-Gillespie Post, American Legion, R. C. Ford, member, plans stadium; seat 2000 to 4000.

Mo., Kansas City—Scottish Rite Temple Assn., 15th and Troost Ave., have plans completed in 60 days for \$1,000,000 temple, Linwood Blvd. and the Paseo; 175x205 ft.; furnishings, equipment, etc., \$250,000; Keene & Simpson, Archts., Land Bank Bldg. 7-14

Okla., Oklahoma City—Building Trades Council and Oklahoma City Trades and Labor Council, Joe C. Campbell, Pres., State Federation of Labor, plans Labor Temple.

Tex., Mercedes—American Legion receives bids Apr. 27 for Spanish type clubhouse; hollow tile and stucco, rein. conc. foundation, 1 story, tile roof; R. Newell Waters, Archts., Weslaco. 3-1

W. Va., Clarksburg—Ancient Free and Accepted Masons, B. B. Jarvis, Chmn., Bldg. Comm., selected Edwin E. Pruitt & Co., Archts.-Engrs., Columbus, O., as architect for remodeling and enlarging temple; \$100,000; additional story. 3-8

Bank and Office

Ala., Vernon—Bank of Vernon, T. S. Jones, Pres., remodeling building.

Ark., Forrest City—Bank of Eastern Arkansas, W. W. Campbell, erect brick bank bldg.; 1 story, 44x66 ft., comp. roof, struct. steel, steel and conc. vault.

D. C., Washington—American Security and Trust Co., 15th St. and Pennsylvania Ave. N. W., plans stone and brick bank and office bldg., adjoining present structure; height not determined; York & Sawyer, Archts., 100 E. 42d St., New York.

Fla., Lake Wales—Citizens Bank, August Heckscher, New York City, Director, remodel building.

Miss., Louisville—Bank of Louisville has low bid at about \$14,000 from Livingston & Wicker, for building; N. W. Overstreet, Archt., Miss. Fire Bldg., Jackson. 4-5

Mo., Kansas City—Grand Avenue Building Co., Jules E. Kohn, O. O. Concannon and M. L. Glenn, care Fidelity Natl. Bk. & Tr. Co., incorporators, incorporated at \$200,000; Jas. H. White, lessee of site, 13th St. and Grand Ave., for 11-story office bldg.; brick and terra cotta, L Shape; cafeteria, barber shops, etc., in basement; stores on first floor; P. T. Drotts, Archt., 413 Reliance Bldg. 3-15

Mo., St. Louis—City College Development Corp., reported, having plans drawn by Gill & Jackson, Buder Bldg., for \$1,000,000 building, Olive and 14th Sts.; site 104x69 ft., 14 stories; stores on first floor, second and third for City College of Law and Finance; remainder for offices; Paramount Financing Service to handle financing. 4-5

N. C., Shelby—First National Bank having plans drawn by C. C. Hartmann, Jefferson Bldg., Greensboro, for 6- to 8-story fireproof bank and office building. 4-5

Tenn., Chattanooga—Hamilton Trust and Savings Bank, W. E. Tomlinson, Vice-Pres., receives bids about Apr. 20 at office R. H. Hunt Co., Archt., James Bldg., for steel and rein. conc. bldg., Main and Market Sts.; \$300,000 to \$500,000, 5- to 8-stories, 61x110 ft. 4-5

Tenn., Knoxville—Dr. Reese Patterson, Acuff Bldg., and others promoting \$500,000 Medical Arts Bldg., W. Main Ave. and Gay St.; Chas. I. Barber, Archt., Tenn. Gen. Bldg., drawing sketches; 12 to 15 stories; basement and 2 sub-basements for garage purposes; 50x90 ft., probably cream colored brick, marble and terra cotta trim, steel and conc. frame, fireproof. 3-8

Tex., Amarillo—Panhandle and Santa Fe Railway Co., M. C. Blanchard, Ch. Engr., receives bids May 1 for fireproof general office bldg.; \$750,000, 12 stories with 2 additional recessed stories, double conc. basement, fireproof, 90x140 ft., comp. tile, cement and terrazzo floors, marble base, terra cotta, granite, metal lath, hollow metal partitions, metal windows, skylights, fire escapes, elevators; plans by E. A. Harrison, Santa Fe System Archt., Rwy. Exch. Bldg., St. Louis, Mo. 3-22

Tex., Austin—Dr. Z. T. Scott, care Scott & Gregg Clinic 700 Brazos St., plans bldg., possibly 10 stories; Geo. L. Walling, Archt.

Tex., Dallas—American Exchange National Bank probably let contract May 1 for \$300,000 addition, Elm St.; struct. steel and In-

diana limestone, 6 stories; Lang & Wittchell, Archts., Amer. Ex. Bk. Bldg.

Tex., Del Rio—First National Bank receives bids May 15 for brick, rein. conc. and stone bldg.; Geo. Willis & Emmett T. Jackson, Archts., Bldrs. Exch. Bldg., San Antonio. 3-22

Tex., Progress — Progresso Development Co. erect \$12,000 bldg.; hollow tile and stucco, conc. foundation, 1 story; Lloyd S. Mellor, Archt., Harlingen; drawing sketches.

Tex., San Antonio—Groos National Bank, Frans Groos, Pres., erect conc. and struct. steel bank building, 143 W. Commerce St.; Henry T. Phelps, Archt., Hicks Bldg.

Churches

D. C., Washington — Calvary Baptist Church, W. S. Abernethy, member, Chastleton Apt., erect 3-story brick Sunday school, Eighth and H Sts., N. W.; A. B. Heaton, Archt., 1211 Connecticut Ave., N. W.

D. C., Washington—St. Matthew's Lutheran Church, care Home Theater, 13th and C Sts. N. E., inaugurate fund campaign Apr. 20 for church buildings. Address The Pastor.

D. C., Washington—St. Stephen's P. E. Church, Newton and Center Sts. N. W., reported, having plans drawn by R. Tappan, Forest Hill Gardens, N. Y., for \$225,000 church, Sunday school and parish house.

Fla., Tampa—Bowman M. E. Church, Scott and Jefferson Sts., erect \$160,000 brick and steel church and Sunday school; former 102x76 ft., 3 stories; latter 42x80 ft., 5 stories; rein. conc. foundation, built-up comp. roof; gymnasium, elevator, dumb waiter, steel gym equipment, special lighting system, dome lights, special kitchen equipment; auditorium seat 1600, Sunday school 1000; furnishings, equipment, etc., \$10,000; F. A. Harris, Archt., Lafayette Arcade; sketches only. See Want Section—Building Material and Equipment.

Ga., Albany—First Methodist Church, 305 Flint St., D. Owens, Chmn., Bldg. Comm., North St., having plans drawn by Dunwoody & Oliphant, Archts., Broadway, Macon, for \$150,000 building. 4-12

Ga., Atlanta—Greek Orthodox Church has low bid at \$48,443 from Padgett & Sutton, Bona Allen Bldg., for community building; Cyril Smith, Archt.; Cooper & Cooper, Asso. Archts., both Bona Allen Bldg. 4-5

Ky., Mt. Vernon—Baptist Church plans building. Address The Pastor.

Miss., Brooksville—Methodist Church, Rev. Seamon Rhea, Pastor, erect \$15,000 bldg.; 1 story, 52x68 ft., wood floors, tile roof; Alsop & Callahan, Archts., U. & P. Bk. Bldg., Memphis, Tenn.

Mo., St. Louis—Eighth Church of Christ, Scientist, erect \$200,000 building, Skinner Rd. and Wydown Blvd.; brick, 2 stories; Aegeter & Bailey, Archts., Rwy. Exch. Bldg.

Mo., St. Louis—Immanuel Baptist Church, Rev. E. L. Pinkerton, Pastor, 5871 Enright Ave., soon call for bids to rebuild structure damaged by fire at \$25,000 loss; Jesse L. Bowling & Isadore Shank, Inc., Archts., Arcade Bldg. 4-5

Mo., St. Louis — St. Mathews Lutheran Church, Rev. L. A. Wisler, Pastor, 5471 Gilmore Ave., erect \$65,000 bldg.; Theo. Steinmeyer, Archt., Int. Life Bldg.

Mo., Trenton—First Baptist Church, Rev. G. L. Hale, Pastor, considers erecting \$40,000 addition; brick, 1 story; Dr. H. Beauchamp, Archt., Dallas, Tex.

N. C., Asheville—First Presbyterian Church, Dr. R. F. Campbell, Pastor, plans building.

N. C., Monroe—First Presbyterian Church erect \$30,000 Sunday school. Address The Pastor.

S. C., Kershaw—Julian S. Starr, Archt., Rock Hill, drawing plans for \$30,000 Sunday school; brick veneer, 3 stories, 82x64 ft., cement and wood floors, conc. foundation, tin roof; 325 yd. excavation; date of bids later. See Want Section—Building Material and Equipment.

Tex., Beaumont—Magnolia Avenue Baptist Church, Rev. L. D. White, Pastor, erect \$100,000 bldg.; drawing plans.

Tex., LaGrange—Zion Evangelical Lutheran Church organized; Rev. A. E. Moebus, Pastor; erect building.

Tex., Rio Hondo—Community Church, Rev. A. H. Hudson, Pastor, having plans drawn by Lloyd E. Mellor, Harlingen, for \$25,000 building; 1 story, balcony and basement, brick, tile and rein. concrete. 3-22

City and County

Ga., Atlanta—City, Councilman Howard C. McCutcheon, Chmn., City Hall Comm.; G. Lloyd Preacher & Co., Inc., Archts., Wynne-Claughton Bldg.; latter advise plans will

not be completed for at least 60 days for \$1,000,000 city hall; steel and conc. frame, fireproof, 15 stories; excavation let to Nichols Contracting Co., at \$8876. 3-22

La., New Orleans—Bd. of Commrs. of Orleans Levee Bd., receives bids Apr. 20 for administration building, bathhouses and pavilion, Spanish Fort; \$50,000; administration building, 1 and 2 stories, 100x60 ft., frame, corrugated asbestos roof, laundry, first aid station, lunchroom; pavilion 50x100 ft.; 600 dressing rooms; conc. walks and lights.

La., Winnsboro—Franklin Parish Police Jury let contract at \$41,995 to W. C. Salley, Ouachita Bank Bldg., Monroe, for pressed brick and cement stone jail; 2 stories, conc. floors, rein. conc. foundation, struct. steel and iron work, steel jail equipment, Johns-Manville built-up roof; plans by Pauly Jail Building Co., 2215 DeKalb St., St. Louis, Mo. 4-12

Miss., Ackerman—Mayor and Bd. of Aldermen consider erecting city hall and auditorium.

Miss., Philadelphia—Neshoba County Bd. of Supervisors receives bids May 9 for rein. conc., brick and cut stone trim courthouse; \$75,000, fireproof, 2 stories, built-up comp. roof, steel sash, rolling doors; R. C. Springer, Archt., Rosenbaum Bldg., Meridian.

Miss., Tupelo—Lee County voted \$53,000 jail bonds. Address Bd. of Supervisors. 3-15

Mo., Moberly—City may vote May 1 on \$150,000 city hall bonds.

N. C., Roxboro—Person County votes June 2 on \$125,000 courthouse and jail bonds.

Okl., Fairview—Major County votes May 1 on \$40,000 courthouse bonds. Address County Commrs.

Tex., Dalworth Park—City, T. J. Ferguson, Mayor, considers erecting city hall.

Tex., Houston—City has low bid at \$307,833 from Tellepsen Construction Co., 3900 Clay St., for superstructures of \$1,000,000 Farmers' Market; plans by J. C. McVea, City Engr. 3-29

Tex., Post—City Council erect \$18,000 city hall; drawing plans.

Tex., Temple—City voted \$100,000 city hall bonds. Address City Council.

Tex., Vernon—Wilbarger County Bd. of Commrs. have plans ready about Apr. 15 for \$375,000 courthouse; fireproof, conc. frame faced with Bedford stone, 4 stories, 90x140 ft., terrazzo floors, steam heat; Voelcker & Dixon, Archts., Perkins-Snyder Bldg., Wichita Falls. 1-19

Tex., Vernon—City, H. D. Hockersmith, Mayor, receives bids Apr. 20 for \$75,000 to \$100,000 city hall; site 60x110 ft.; information from S. H. Hall, City Sec.

Va., Fairfax—Fairfax County Bd. of Supervisors receives bids Apr. 25 for \$100,000 first unit of \$200,000 courthouse; brick, 2 stories, 120x45 ft., rein. conc. floors, conc. foundation, slate roof; Wm. I. Deming, Archt., 808 Seventh St.; Thos. Marshall, Engr., both Washington, D. C. See Want Section—Building Material and Equipment. 3-15

W. Va., Princeton—Bd. of Directors, Mercer County World War Soldiers and Sailors Memorial, care Chamber of Commerce, erect first unit of memorial building.

Dwellings

Ala., Bessemer—Dr. J. C. Pope, West Lake, erect brick and stucco residence, Lakewood Estates; 2 stories, 58x34 ft., slate roof, furnace heat; Denham, Van Keuren & Denham, Archts., Age-Herald Bldg., Birmingham; bids in.

Ala., Birmingham—Mrs. I. M. Brown, care J. F. Ringer, Archt., 512 Martin Bldg., erect \$12,000 brick veneer residence, Lakeview Ave.; 1½ stories, tile roof, 2 tile baths, steam heat.

Ala., Birmingham—Thos. Scott Brown, 924 Conroy Rd., erect tile and stucco residence, Rocky Ridge Park; 2 stories, tile roof, steam heat; Jacob E. Salie, Archt., Exch. Bldg.

Ala., Birmingham—F. E. Mackie, 615 S. 27th St., erect brick veneer residence, Rocky Ridge Park; 2 stories, slate roof, steam heat; Jacob E. Salie, Archt., Exch. Bldg.

Ala., Birmingham—H. U. Sims, First Natl. Bank Bldg., erect brick and stucco residence, Rocky Ridge Park; 2 stories, tile roof, steam heat; D. O. Whilden, Archt., 515 N. 21st St.

Ala., Huntsville—Lincoln Mills of Alabama erect about 150 four- and six-room operative dwellings during summer.

Ala., Opelika — Harry Frieseleben erect brick veneer residence; 2 stories, comp. roof, vapor heat; S. C. Molloy, Archt., Birmingham.

D. C., Washington—D. C. Gruver, 927 15th St., N. W., has permit for 9 brick and tile dwellings, 3827-43 Beecher St., N. W.; 2 stories; \$80,000.

D. C., Washington—M. V. Van Devanter has permit for \$35,000 residence, 2801 Chesterfield St., N. W.; stone, 2 stories.

D. C., Washington—Major R. E. Lee, 1500 Kenilworth Ave., N. E., has permit for \$54,000 brick and tile residence, 1344 Thirtieth St., N. W.; 2 stories.

Fla., Jacksonville—J. E. Wilson, Box 403, Ortega, erect \$17,000 residence, Windsor St. near Park St.; 2 stories, brick veneer.

Fla., Lake Worth—J. D. Gedney erect residence, Ocean Blvd., near Fort Worth; Spanish type, 1½ stories, hollow tile, stucco, 2 baths; Addison Mizner, Archt., Worth Ave., Palm Beach.

Fla., Palm Beach—J. H. Behrens, New York, erect residence; John Volk, Archt., Daily News Bldg., Palm Beach.

Fla., Palm Beach—E. Z. Nutting, Huntington, Long Island, N. Y., erect \$80,000 residence, S. Ocean Blvd.; Julius Jacob, Archt.; plans nearing completion.

Fla., Palm Beach—Chas. B. Long, Lancaster, Pa., plans residence in 1929.

Ga., Atlanta—Dr. Leo P. Daly, 360 Ponce de Leon Ave., N. E., erect \$25,000 residence, Lullwater Rd.; 2 stories and basement, 48x41 ft.; Clerk & Leiberman, Archts., 408 Henry Grady Bldg.; bids in.

Ga., Atlanta—Louis Aronstam, 263 Decatur St., ready for bids about Apr. 20 for brick residence; \$35,000, 2 stories and basement, hardwood floors, slate or tile roof, steam heat; Pringle & Smith, Archts., Norris Bldg. 3-1

Ga., Augusta—Mrs. Robt. Neely, Jr., has low bid from Frank Wheatley Co., 510 Crawford St., for residence.

Ky., Jenkins—Consolidation Coal Co., F. P. Davis, Pur. Agt., Fairmont, W. Va., and Jenkins, erect 200 miners' dwellings; bids in.

Ky., Louisville—Consolidated Realty Co., 231 S. Fifth St., \$16,000 brick veneer dwelling and garage, 2945 Rainbow Drive.

La., New Orleans—A. P. Rauch, 101 Brooklyn Ave., may erect residence, Claiborne Ave.

La., New Orleans—A. M. Dantzler erect brick Colonial residence and garage, Metairie Club Gardens; 2 stories, 73x40 ft., slate roof, hollow tile, oak floors, steam heat; oil burner; Lockett & Chachere, Archts., Balter Bldg.

Maryland—M. Gregg Latimer, care Hawkins, Delafield & Longfellow, 20 Exchange Pl., New York, erect residence, "Lake Richmond" farm on Miles River.

Md., Baltimore—A. E. Meyers erect 9 brick dwellings and garages, 3000 block Richmond Ave.; 2 stories; \$20,000.

Md., Baltimore—Dr. Wm. F. Rienhoff, Jr., 1201 N. Calvert St., plans residence, Belvedere Ave. near Charles St. Ave.

Md., Baltimore — J. A. Schneider, 3708 Kate Ave., erect 2 brick dwellings and garages, 3501-06 Crossland Ave.; 2½ stories; \$16,000.

Md., Baltimore—E. R. Morse erect residence, Springlake Way, Homeland; Palmer & Lambdin, Archts., 513 N. Charles St.

Miss., Amory—City Atty. Luther E. Grice erect brick veneer residence, Lea Ave., Lindell addition.

Mo., Glasgow—E. W. Henry erect 1½-story brick veneer residence.

Mo., Kansas City—T. J. Pendergast, 1908 Main St., erect \$100,000 residence, 57th St. and Ward Pkwy.

Mo., Kansas City—J. E. Eldridge, 4 Westport Bk. Bldg., erect 2 frame and stucco dwellings, 4911 State Line and 2064 Drury St.; 1 and 2 stories, 24x41 ft. and 33x26 ft.; \$10,000.

Mo., Kansas City—Real Estate Investment Co., 5128 Wabash St., erect 5 frame dwellings, 5300-10 Olive St.; 1 story, 23x39 ft. and 22x43 ft.; \$13,000.

Mo., Kansas City—Associated Investment Corp., W. Frank Wisdom, Pres., Finance Bldg., erect 20 dwellings, connection with development, U. S. Highway No. 71.

Mo., St. Louis—Chas. D. Evans erect 2-story stone residence, Balmagoun; Nolte & Nauman, Archts., Fullerton Bldg.

Mo., St. Louis—Chas. L. Kower, care Lewis Invisible Stitching Machine Co., 3763 Forest Pk. Blvd., plans field stone residence,

Balmagoun; Nolte & Nauman, Archts., Fullerton Bldg.

Mo., St. Louis—Mrs. D. E. Louree, 560 Adelaide St., University City, erect \$40,000 residence, Park Drive, Richmond Heights; brick, 2 stories; Jesse L. Bowling & Isadore Shank, Inc., Arcade Bldg.

Mo., St. Louis—L. J. Venard, 6147 Manchester St., considers erecting 1-story frame residence, Sproule Ave.

Mo., St. Louis—J. W. Leigh, Archt., Rwy. Exch. Bldg., completed plans for dwelling, Claytonia Terr., Moorlands; brick, 2 stories and basement, 45x34 ft., slate roof, hot water heat.

Mo., St. Louis—Geo. C. Willmering, Archt., 4118A W. Florissant St., has received bids for brick dwelling, McLearn St. near Trafalgar Lane; 1 story and basement, 27x46 ft., hardwood floors, asphalt shingle roof, hot water heat.

Mo., St. Louis—Robt. W. Bates, 6025 Bartmer Ave., erect \$15,000 residence and garage, 8105 Monroe Ave.; 1 story and basement, 29x49 ft., hardwood floors, tile bath, asphalt shingle roof, hot water heat; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—Schulte & Tarling, Archts., Grand and St. Louis Bldg., drawing plans for \$18,000 dwelling, Durant and Park Sts.; 2 stories and basement, 35x35 ft., stone foundation, hardwood floors, tile roof, hot water heat.

Mo., St. Louis—Chas. Schumacher, 3900 Palm St., erect \$30,000 residence, Byron and Glenridge Ave., Moorlands; brick, 2 stories and basement, 38x54 ft., hardwood floors, stone foundation, hot water heat, oil burner, elec. refrigerator, incinerator; O. J. Popp, Archt., Arcade Bldg.

Mo., Troy—H. T. Gooch plans brick residence.

Mo., Troy—H. Kemper plans residence.

Mo., University City, St. Louis—J. W. Leigh, Archt., Rwy. Exch. Bldg., St. Louis, completed plans for dwelling, W. Maryland Terrace; brick, 2 stories and basement, about 78x37 ft., hardwood floors, hot water heat.

N. C., Charlotte—Hugh Murrill, Sr., 14 E. Morehead St., erect \$13,000 residence, 218 Roswell Rd.; tile and stucco, 8 rooms.

N. C., Charlotte—J. Norman Pease, Johnston Bldg., erect \$12,000 residence, Fenwood Rd.; brick veneer, 8 rooms.

N. C., Charlotte—Irving Henderson erect residence, Eastover.

N. C., Winston-Salem—J. G. Nail, 1008 Shallowford St., erect \$11,000 residence and garage, Rosewood Ave.; 8 rooms.

N. C., Winston-Salem—Wachovia Building Co., Nissen Bldg., erect \$10,250 dwelling and garage, Oaklawn St.; 8 rooms.

Okla., Blackwell—Dr. H. M. Stricklen, Tonkawa, erect \$30,000 brick veneer residence, 1227-31 N. First St.; 2 stories and basement, 98x30 ft.

Okla., Oklahoma City—B. S. Holmes erect 4 frame dwellings, 503 N. Idaho Ave. and 1115-19 E. Fourth St.; \$20,000.

Okla., Oklahoma City—C. E. Rogers, 328 E. Park St., erect 2 brick dwellings, 705-09 E. 16th St.; \$10,000.

Okla., Tulsa—C. D. Cooper, 1763 S. Utica St., erect 2 dwellings, 1249-54 E. 30th St.; \$17,000.

Okla., Tulsa—John B. Sheehan, 603 N. Cheyenne St., erect \$12,500 residence, 2208 S. St. Louis Ave.

Okla., Tulsa—C. H. Terwilliger, Kennedy Bldg., erect \$20,000 residence, 2440 Terwilliger Blvd.

S. C., Aiken—S. G. Flagg, Radnor, Pa., erect \$25,000 residence; Willis Irvin, Archt., S. F. C. Bldg., Augusta, Ga.; bids in.

S. C., Aiken—J. Oscar Williams erect \$25,000 residence; Willis Irvin, Archt., S. F. C. Bldg., Augusta, Ga.; plans completed.

Tenn., Knoxville—Parkwood Manor, Inc., Frank A. McSpadden, Pres., 609 Market St., probably erect \$10,000 to \$15,000 dwellings.

Tenn., Memphis—Francis P. Kendall, 2439 Parkway Pl., erect \$20,000 brick veneer residence, Chickasaw Gardens; 2 stories and basement, about 42x35 ft., oak floors, tile roof and bath, steam heat; garage and servants' quarters; Geo. Mahan, Jr., Archt., Amer. Bank Bldg.

Tenn., Memphis—Dr. J. W. Munk, Bk. of Comm. Bldg., has low bid from McDonnell Construction Co., Empire Bldg., for residence; Regan & Weller, Archts., Derron Bldg. 3-29

Tenn., Memphis—J. D. Scott, Empire Bldg., considers erecting 3 brick veneer dwellings, S. Orleans St.; 1 story and basement, oak

floors, comp. shingle roof, tile bath, hot water heat; \$15,000.

Tenn., Nashville—R. G. Benson, care Tisdale, Stone & Pinson, Archts., Ind. Life Bldg., erect brick and stone residence; 2 stories and basement, 56x31 ft. with 46x29-ft. wing.

Tex., Amarillo—J. Roy Smith, Archt., 405 Kentucky St., drawing plans for \$10,000 M. E. District parsonage, 1702 Taylor St., for Rev. W. M. Pearce; brick veneer, 2 stories and basement, shingle roof, oak and tile floors.

Tex., Fort Worth—J. L. Mims, Ft. Worth Nat'l Bldg., erect \$15,000 brick veneer residence, 2222 Windsor St.

Tex., Fort Worth—P. E. Rast, 2565 Forest Pk. Blvd., erect \$14,500 brick veneer residence, Cockrell and McPherson Sts.

Tex., Galveston—B. Wittjen erect 4 cottages, 3800 block S $\frac{1}{2}$ St. and Palm Garden; 6 rooms; \$20,000.

Tex., Houston—Jas. H. Edmonds, 4019 Caroline St., probably erect 30 cottages; \$100,000.

Tex., Houston—River Oaks Corp., River Oaks Bldg., erect \$20,000 dwelling, garage and servants' quarters, 2217 Troost St.; 2 stories, brick veneer, 7 rooms, 2 baths.

Tex., Houston—H. C. Vogt, 2411 Binz Ave., erect \$10,000 dwelling and garage, Riverside Extension addition; brick veneer, 2 stories, 8 rooms.

Tex., Houston—G. G. McCall erect \$10,000 brick veneer residence, 3834 Wilmer St.; 16 rooms.

Tex., Houston—H. G. Fields, Public Nat'l Bk. Bldg., erect \$10,000 duplex and garage, 2710 Rosedale St.; 2 stories, 12 rooms, garage.

Tex., Houston—Franklin Building Co., 914 Franklin St., erect \$13,500 brick veneer residence, 1628 Bissonnet St.; 2 stories, 8 rooms, garage.

Tex., Houston—G. G. McCall erect \$10,000 duplex, 2009-11 Woodhead Blvd.; 10 rooms, brick veneer.

Tex., Houston—Dallas H. Moore, 212 Portland St., erect \$15,000 residence, 5 Waverly Drive; brick veneer, 10 rooms.

Tex., Houston—H. E. Neuhaus, Union Nat'l Bk., erect \$35,000 residence, 1824 Larchmont St.; 9 rooms, brick veneer.

Tex., San Antonio—Dr. Chas. Bochs, Med. Arts Bldg., erect brick veneer residence, Hollywood Ave., Monte Vista; 2 stories, 9 rooms; Will N. Noonan Co., Archt., Bldrs. Exch. Bldg.

Tex., San Antonio—Ward W. Kelly, care Kelley-Maverick Lumber Co., and Casey Hirschfeld, erect residence, Olmos Park Estates.

Tex., San Antonio—Lloyd T. Snyder erect 11 dwellings, Gramercy Place, Hoeftgen Ave., High Blvd., Peach and Drexel Sts.; 5 rooms; \$25,000.

Government and State

Ala., Birmingham—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., receives bids May 8 for completing attic story, post office and courthouse, including incidental changes and repairs.

D. C., Washington—Following contractors estimating on safeguarding dome of rotunda, natural history building, U. S. National Museum, bids Apr. 24 by Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt.: English Construction Co., 1311 H St.; Skinker & Garrett, 1416 F St., N. W.; H. S. Hatton Construction Corp., 100 N St.; Heron-Todd Construction Co., Inc., 1000 E St., N. W.; Arthur L. Smith, 2525 Pennsylvania Ave., N. W., all Washington; N. P. Severin Co., 222 W. Adams St., Chicago, Ill.; Heapy & Little, 690 Eighth Ave., New York. 4-5

N. C., Asheville—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., probably start work about July 1 on \$650,000 Federal bldg.; possibly 3 stories and basement, with post office on first floor, offices on second, court room on third. 8-25

N. C., Raleigh—North Carolina State Fair, T. S. White, Pres., receives bids Apr. 23 for grading grounds and erecting one-story, steel frame buildings, Raleigh-Durham Highway; tile walls, wood roofs; plans, Atwood & Nash, Inc., Archts.-Engrs., Chapel Hill. 11-10-27

Tenn., Paris—Treasury Dept., Jas. A. Wetmore, Act. Supvg. Archt., Washington, D. C., start work about June 1 to remodel post-office, John W. Wiggs, Postmaster; \$65,000.

Va., Danville—Quartermaster Supply Office, 20th and C Sts., N. W., Washington, D. C., receives bids Apr. 27 for lodge, com-

plete, including heating and plumbing, U. S. National Cemetery.

Va., Hopewell—Quartermaster Supply Office, 20th and C Sts., N. W., Washington, D. C., receives bids Apr. 27 for lodge, complete, including heating and plumbing, and outbuilding and walks, City Point National Cemetery.

Va., Richmond—Home for Needy Confederate Women, 3 E. Grace St., having plans drawn by Baskerville & Lambert, Travelers Bldg., for memorial home on Soldiers' Home grounds.

Hospitals, Sanitariums, Etc.

D. C., Washington—Freedmen's Hospital, Sixth and Bryant Sts., erect \$150,000 nurses' home and \$52,000 power house addition; J. Berrell, Archt.-Engr., Colo. Bldg.

Ga., Atlanta—Crawford W. Long General Hospital, Gov. L. G. Hardman, Milton Dargan, Jr., Pres., Atlanta Chamber of Commerce, and others, filed petition to incorporate Crawford W. Long General Hospital, to erect 2000-bed non-sectarian hospital for charity and part-pay patients; \$3,000,000 to \$5,000,000; preliminary plans call for 8-story central unit, 380x200 ft., with 7-story wings, 70x100 ft. each; 11,000,000 cu. ft.; funds by public subscription.

Mo., Clayton, St. Louis—St. Louis County, Dr. A. D. Walter, member, hosp. tal comm., selected Aegeter & Bailey, Rwy. Exch. Bldg., St. Louis, as architects for \$1,000,000 hospital; bonds voted. 12-8

Mo., St. Louis—St. Louis Baptist Hospital, Dr. J. C. Bram, Supt., Garrison and Franklin Aves., purchased old St. Louis Maternity Hospital, 4518 Washington Blvd.; considers 150-room new building, probably within year.

N. C., Charlotte—Mecklenburg County Bd. of Commrs. having plans drawn by Louis H. Asbury, 1514 E. Fourth St., for \$20,000 children's annex, Mecklenburg Sanatorium; R. Neal Hood, Chmn., Bd. of Managers; 40 beds. 3-15

Okla., Picher—Mrs. Bobbie Joseph, Welfare Nurse, American Zinc Inst., interested in hospital.

S. C., Greenville—Salvation Army, Maj. W. A. McIntyre, Commdr., Atlanta, Ga., having plans drawn by A. Lekson, Atlanta, for \$35,000 nurses' home and \$75,000 wing to Salvation Army Hospital; fireproof, 3 stories, brick and reln. conc., poured conc. floors. 1-19

Tex., Austin—City, Adam R. Johnson, City Mgr., has low bid at \$69,296 from H. E. Wattinger, 901 Paul St., for Breckenridge Hospital addition; H. F. Kuehne, Archt., Littlefield Bldg.; M. L. Diver, Struct. Engr. 3-29

Tex., Nacogdoches—City Council opens bids about Apr. 20 for hospital; \$60,000; fireproof, conc. and brick, 2 stories, conc. floors and foundation; Shirley Simons, Archt., Lufkin. 2-9

Tex., Rusk—State Bd. of Control, R. B. Walthall, Chmn., having plans drawn by Page Bros., Austin Nat'l Bk. Bldg., both Austin, for \$85,000 ward bldg. and equipment. 4-6

Tex., Sonora—Dr. A. G. Blanton plans \$18,000 hospital.

Tex., Wichita Falls—State Bd. of Control, R. B. Walthall, Chmn., Austin, having plans drawn by Voelcker & Dixon, Kahn Bldg., Wichita Falls, for \$125,000 ward bldg. and equipment. 4-5

Hotels and Apartments

Ark., Fordyce—Kilgore Hotel Co. erect \$100,000, 4-story and basement, 140x75 ft., brick hotel; comp. roof, struct. steel, iron; Thompson, Sanders & Ginocchio, Archts., Hall Bldg., Little Rock. 3-22

Ark., Fort Smith—Southwestern Hotel Co., Rudolph New, Pres., 923 N. Sixth St., has preliminary plans by Bassham & Wheeler, Kennedy Bldg., for 6-story annex to Goldman Hotel.

D. C., Washington—Nathan Smith, 1327 Allison St., N. W., erect \$175,000, 5-story, concrete and brick apartment, 3904 New Hampshire Ave., N. W.; automatic lift; Geo. T. Santmyers, Archt., 917 15th St., N. W.

Ga., Augusta—L. S. Barrington & Son erect 100-room addition to Richmond Hotel.

Ky., Louisville—Dave Jarrett erect \$13,000 brick veneer apartment, 1862 Princeton Drive.

Ky., Louisville—Yewell Smallwood, 4724 S. 6th St., erect \$40,000, brick apartment building, 2801 Meadowlark St.

La., Jonesboro—S. A. Nomey soon call for bids for \$40,000, 3-story, 60x100-ft., brick, fireproof hotel on Main St.; J. W. Smith & Associates, Archts., Ouachita Bk. Bldg., Monroe.

Miss., Jackson—N. W. Overstreet, Miss. Fire Ins. Co. Bldg., preparing plans for Walthall Hotel, E. Capitol St.; 8 stories, steel, rein. conc. terra cotta. 3-22

Miss., Macon—Model Hotel remodel and erect 30-room addition; \$70,000; Geo. Mahan, Jr., Archt., American Bank Bldg., Memphis, Tenn.

Mo., Garber—Mrs. Ada Clodfelter plans tourist hotel, cabins, store and other buildings.

Mo., Poplar Bluff—Otto Slayden erect \$15,000, 2-story and basement, 40x58 ft., brick apartment and commercial building, Broadway and Maple Sts.

Mo., St. Louis—F. Brusco, 4966 Natural Bridge, erect three 2-story, 19x48 ft., brick tenements, 4839-43 Palm St.; \$15,000; composition roofs, hot air heat; O. J. Popp, Archt., Arcade Bldg.

Mo., University City, St. Louis—Eugene A. Freund has permit for \$85,000, 3-story, 100x110-ft. brick store and apartment, 6388-94 Delmar Blvd.; Huger & Buecker Construction Co., Contr.; Otto J. Kriegel, Archt., all Wainwright Bldg.

Mo., St. Louis—L. Sinn, 6838 McNamara St., erect \$10,000, 2-story, 24x17-ft. brick tenement, 5730 LaBadie St.; asbestos shingle roof, hot air heat; owner, Archt.-Bldr.

Mo., St. Louis—H. W. Simon, 4659 Athlone St., erect \$10,000, 2-story, 21x67-ft. brick tenement, 4305 Rosalie St.; comp. roof, hot air heat; H. Simon & Co., Contr., 4155 N. Newstead St.; Schulte & Tarling, Archts., Grand and St. Louis Aves.

N. C., Charlotte—Mrs. Belle C. Rutzler has low bid from John P. Little & Son, Independence Bldg., for \$100,000, 36-family apartment on Louise Ave.; 3 stories and basement, fireproof, brick, ornamental stone, wrought iron trim, private telephones; Willard C. Rogers, Archt., Latonia Bldg. 3-1

N. C., Moores Spring—J. G. Bradshaw plans rebuilding hotel and other structures at summer resort.

Okla., McAlester—Clarence Doss promoting erection \$250,000, 100-room hotel, Second and Choctaw Sts.

Okla., Tulsa—Paul A. Wilson, Tulsa Tr. Bldg., erect \$21,000 apartment, 1717 S. Quincy Ave.

Okla., Tulsa—W. R. Chilton erect \$20,000 apartment, 10 S. Lewis Ave.

Okla., Tulsa—J. E. Gordon, 508 W. Third St., has permit for \$22,500 apartment, 512 W. Third St.

Tenn., Lexington—I. M. Dennison soon call for bids for remodeling and 2-story and basement, 60x70 ft. addition to hotel; brick veneer, stucco trim, comp. roof; Luther Parham, Archt., 586 Hays Ave., Jackson.

Tenn., Memphis—J. L. White, Fidelity Bank Bldg., \$150,000, 12-unit apartment, Poplar Ave., and \$30,000, 4-unit apartment, Jackson Ave.; 2 stories and basement, comp. roof, brick veneer.

Tenn., Memphis—L. C. Walker, 1478 S. Willett St., erect \$60,000, 16-unit apartment, Poplar Ave. and McNeil St.; 2 stories and basement, brick veneer, comp. and tile roof.

Tex., Llano—Llano Community Hotel Co. soon start work on \$96,000 hotel. 12-8

Tex., Lubbock—Lubbock Hotel Holding Co., M. L. Shepherd, Sec., considers erecting 5-story addition to Lubbock Hotel; Wyatt C. Hedrick, Archt., First Natl. Bldg., Fort Worth.

Tex., Rosenberg—Messrs. Turricchi, owners Eagle Cafe, purchased site, Main St. and Avenue H, for 3-story, 70-room hotel.

Va., Lawrenceville—Chamber of Commerce, T. E. Warriner, Sec., advises stock company will erect \$90,000, 3-story, 30-room, fireproof hotel.

Va., Richmond—Tuscan Villa Corp., P. O. Miller, Sec.-Treas., Mutual Bldg., erect \$300,000, 3-story, brick apartment, 507 N. Boulevard; Bascom Rowlett, Archt., Richmond Tr. Bldg.

Va., Virginia Beach—Neff & Thompson, Seaboard Bk. Bldg., Norfolk, preparing plans for bathing pavilion at Cavalier Hotel.

Miscellaneous

Ark., Arkadelphia—American Rescue Workers, Atlanta, Ga., plan Home for Aged.

Ark., Hot Springs—Hot Springs Golf and Country Club, Harry A. Jones, Pres., erect \$100,000 clubhouse.

Ark., Little Rock—Arkansas Motor Club, L. E. Warford, Sec., soon call for bids on clubhouse and office building, Broadway and Markham Sts.; John Parks Almand, Archt., Boyle Bldg.

Ark., Pine Bluff—Arkansas Airport Co., L. Garrett, Pres., Pine Bluff Landing Field Assn., erect \$30,000 clubhouse; Mitchell Selligman, Archt., 206 Pine St.

Fla., DeLand—DeLand Woman's Club erect clubhouse, W. Michigan Ave.

Fla., Miami Beach—Bath Club, Harry Mansfield, Sec., enlarge clubhouse, erect 40 cabanas, construct golf course on 100-acre site, Normandy Beach and Baker's haulover.

Fla., Tampa—Waylan Rupert has permit for \$32,000 market building, Morgan and Zack Sts.

Ga., Nashville—Women's Club erect clubhouse, Bartow St.

La., New Orleans—E. M. Reynes, Archt., 822 Perdido St., soon call for bids for \$25,000 improvements to 2-story building on Jackson Ave., for mortuary parlor.

Md., Baltimore—Baltimore Opera Club, Dr. Hugh H. Young, Pres., Monument and Broadway, erect \$50,000 addition to Lyric; 714 additional seats; Taylor & Fisher, Archts., Union Tr. Bldg.

Mo., St. Louis—Consolidated Realty Co. erect recreational building, 3d and Guthrie Sts.

S. C., Orangeburg—Orangeburg County Fair Assn. erect agricultural building.

Tenn., Knoxville—I. Searles Runyon interested in establishment Williams-Henson Home for Boys.

Tenn., Memphis—Widow and Bachelor Club, Mrs. Myrtle Meroney, Pres., erect clubhouse.

Tex., Houston—Democratic National Convention, Will C. Hogg, member, considers erecting \$25,000 Hospitality House across street from Convention Hall; seat 3500 persons under canopies block long, equipped with loud speakers.

Tex., Longview—East Texas Exhibit Assn., A. L. Connor, Chmn., Finance Comm., soon start work on 3 fair buildings.

Tex., Marshall—Central East Texas Fair Assn., L. W. Hawley, Pres., erect grandstand, woman's building, livestock pavilion.

Tex., Port Aransas—Ferry Cafe erect restaurant; P. L. Telford, Archt.

Tex., San Antonio—St. Joseph's Orphanage, Cameron St. and Military Plaza, erect \$150,000 building; Leo M. J. Dielmann, Archt., 306 E. Commerce St.

Va., Fredericksburg—Society for Preservation of Virginia Antiquities restore Mary Washington home; under supervision Philip N. Stern, Archt.

Railway Stations, Sheds, Etc.

Tex., Navasota—Missouri Pacific R. R. Co., C. S. Kirkpatrick, Ch. Engr., Gulf Coast Lines, Dallas, erect \$13,000 passenger station.

Schools

Ark., Bentonville—John P. Almand, Archt., Boyle Bldg., Little Rock, receives bids May 12 for \$100,000 high school. 4-12

Ark., Malvern—Hot Springs County Bd. of Education, R. F. Tackett, Supt., erect \$25,000, 2-story, brick grade and high school in Central Special School Dist.

D. C., Washington—Marjorie Webster School of Expression, 1409 Massachusetts Ave., N. W., erect \$180,000, 3-story, conc. and tile school, 7753 17th St., N. W.

Fla., Chipley—City votes May 8 on \$75,000 high school bonds.

Ga., Atlanta—Omega Trust Assn., W. A. Parker, Pres., care Beck & Gregg Hardware Co., 64 Marietta St., let contract at \$21,460 to J. L. Hiers & Son, 445 Ridgecrest Ave., N. E., for fraternity house for Chi Phi Fraternity, Georgia School of Technology; 77x49 ft., 2 stories and attic, brick veneer, Indiana limestone trim, slate and built-up roof; Wm. Parsons, Jr., and Ivey & Crook, Asso. Archts., 1310 Candler Bldg. 4-12

Ga., Atlanta—Elizabeth School Dist. voted \$25,000 school bonds; Bernard Awtry, County Supt. of Schools.

Ga., Augusta—Bd. of Education, L. B. Evans, Sec., receives bids April 25 for \$50,000 Tubman High School addition; 2 stories and basement, brick, comp. roof, conc. and wood floors; Willis Irvin, Archt., S. F. C. Bldg. 4-12

Ga., Naylor—Lowndes County Board of Education, Valdosta, plans school.

Ga., Sparta—Sparta Agricultural and Industrial Institute for Negroes, Linton S. Ingraham, Prin., plans \$75,000 memorial building.

Ky., Berea—Berea School Dist. votes May

5 on \$20,000 bonds for High School; to be supplemented by \$10,000 by Madison County Bd. of Education, Richmond, provided bonds carry.

Ky., Covington—Bd. of Education, W. A. Shore, Bus. Dir., erect 2-story, brick school, 32d and Graff Sts.; C. C. & E. A. Weber, Archts., 1404 Ingalls Bldg., Cincinnati.

Ky., Bowling Green—Western State Teachers' College, Dr. H. H. Cherry, Pres., erect \$250,000 girls' dormitory, \$100,000 gymnasium, \$50,000 manual arts building; Brinton B. Davis, Archt., Columbia Bldg., Louisville.

Ky., Hindman—Knott County Bd. of Education, H. H. Taylor, Supt., receives bids May 21 for high school.

Ky., Latonia—Bd. of Education having tentative plans drawn for Ninth Dist. School addition.

Ky., Lexington—Bd. of Education, R. D. Norwood, Pres., approved plans for \$20,000 auditorium-gymnasium at Maxwell School.

Ky., Owensboro—School Bd., J. L. Foust, Supt., considering \$75,000 bond issue for unit of Longfellow School, S. Frederica St.

Ky., Raceland—Raceland Graded School Dist. Bd. of Education, W. W. Downing, Pres., receives bids April 24 for high and graded school; plans from Ralph Murray, Archt., 106 Masonic Bldg., Ironton, Ohio, and R. L. Stephens, Clk. Bd. of Education.

La., Baton Rouge—East Baton Rouge Parish School Bd., W. H. Perkins, Pres., erect one-story, brick and frame Monte Sano School on 5-acre site on Bayou Sara road; 7 classrooms, composition roof; Jones, Roessle & Olschner, Archts., Raymond Bldg.

La., Independence—Independence School Dist. votes May 15 on \$150,000 high school bonds.

La., Lake Charles—Drew Endowment Fund Trustees, H. J. Geary, member, 929 N. Division St., erect building for Drew Manual Training School.

La., Mandeville—St. Tammany Parish School Bd., Elmer E. Lyon, Sec., Covington, receives new bids May 15 for alterations and additions to 2-story, frame high school; 8 classrooms, slate roof, steam heat, sheet metal work; Wm. T. Nolan, Archt., Canal Bank Bldg., New Orleans. 3-22

La., Monroe—Ouachita Parish School Board, T. O. Brown, Supt., have plans prepared and call for bids May 9 for 6-room addition to High School, buildings for north side and south side in West Monroe and one in Sterlington. 1-26

La., New Orleans—Martin Shepard, Archt., and Theard & Matthews, Asso. Archts., Balter Bldg., receive bids April 30 for 2-story, 60x320 ft., brick parochial school, S. Dorge-nols St., for St. Matthias' Catholic Church, Rev. Geo. Andree, Pastor; 10 classrooms, administration office, cafeteria, auditorium to seat 700; following contractors estimating: Dudley & Wikle Construction Co., Stern Bldg.; J. A. O'Brien, Louisiana Bldg.; R. P. Farnsworth & Co., Maritime Bldg.; Lionel F. Favret, Louisiana Bldg.; Gervais F. Favrot, Balter Bldg.; Chas. Gilbert, Canal Bank Bldg.; Geo. J. Glover Co., Whitney Bldg.; O. M. Gwin Construction Co., Union Indemnity Bldg.; J. A. Haase, Jr., 916 Union St.; J. A. Petty & Sons, Inc., Godchaux Bldg.; Collout & Erwin, Inc.; Geary-Oakes Co. and Alvin Fromherz, all Queen & Crescent Bldg.

Md., Annapolis Junction—Dist. Commrs., Room 508 Dist. Bldg., Washington, receive bids Apr. 24 for 2 dormitories, cowbarn, hay loft, implement and tool house at District Training School; 303,000 cu. ft.; plans, Room 327 Dist. Bldg., Washington.

Md., Cumberland—Allegany County Bd. of Education, Fernan G. Pugh, Pres., receives separate bids April 24 for brick addition to East Side School, Cumberland, and brick addition public school, Flintstone.

Md., Thurmont—Frederick County Bd. of Education, G. Lloyd Palmer, Sec., Frederick, receives bids April 28 for addition and alterations to high school; John E. Hamme, Archt.; plans from office Mr. Palmer.

Miss., Carthage—Carthage Cons. School Dist. votes April 27 on \$25,000 bonds for school. Address Dist. School Trustees.

Miss., Columbia—Columbia Consolidated School Dist. votes May 5 on bonds to replace burned school.

Miss., Duncan—Duncan Consolidated School Dist. Trustees erect \$40,000 school.

Miss., Escatawpa—Escatawpa School Dist. voted \$10,000 school bonds.

Miss., Georgetown—Georgetown Consolidated School Dist. voted \$30,000 bonds. 3-29

Miss., Jackson—City votes April 26 on \$60,000 negro high school bonds.

Miss., Long Beach—School Trustees, H. L. Blackmar, Pres., receives bids May 5 for \$25,000, one-story, 164x98 ft., brick high school addition; 7 classrooms, cafeteria, gymnasium, wood floors, built-up roof, conc. foundation; Shaw & Woleben, Archts., Northrop Bldg., Gulfport. 4-12

Miss., Louisville—School Bd., Luther Neal, receives new bids May 5 for \$100,000, 2-story, brick, stone trim school; rein. conc. foundation, wood and conc. floors, steel and iron work; P. J. Krouse, Archt., M. & W. Bldg., Meridian. 4-5

Miss., Moselle—Moselle Cons. School Dist. erect \$35,000 school; J. M. Bryant, Supt., Jones County Bd. of Education, Laurel. 2-23

Miss., Picaune—Pearl River County School Bd., Poplarville, receives bids April 27 for \$30,000, one-story, rein. conc., brick and stone trim Westside Grammar School; struc. steel and iron work, comp. roof, sheet metal work, slate roof; N. W. Overstreet, Archt., Miss. Fire Ins. Co. Bldg., Jackson. 4-12

Miss., Poplarville—School Bd. erect annex to Junior High School; \$26,000 bonds voted. 4-5

Miss., Waynesboro—Waynesboro Separate School Dist. voted \$40,000 bonds. 4-5

Mo., Kansas City—St. Peter's Parish, Rev. James N. V. McKay, Pastor, erect \$55,000 parochial school, first unit of development on Meyer Blvd.; English Gothic design, 2 stories, brick, stone trim; later erect church, parish house; Besecke, DeFoe & Dillon, Archts., Huntzinger Bldg.

Mo., Marshall—Bd. of Education erect grade school on Mitchell St.

N. C., Asheville—Valley Springs School Dist. voted \$100,000 bonds for high school and gymnasium; Ronald Green, County Archt., prepared tentative plans; A. C. Reynolds, County Supt. of Public Instruction. 3-8

N. C., Harmony—Iredell County Bd. of Education, Statesville, receives bids April 26 for schools at Harmony and Shepherds; separate bids on general contract, heating, plumbing; plans, office M. R. Marsh, Archt., 509 Builders Bldg., Charlotte.

N. C., Parkton—School Bd. soon call for bids for high school; Geo. R. Berryman, Archt., Odd Fellows Bldg., Raleigh.

Okla., Comanche—School Bd., J. B. Pierce, Member, erect school; \$25,200 bonds voted.

S. C., Bennettsville—Marlboro Graded School Dist. No. 10, Dr. O. A. Matthews, Sec., Bd. of Trustees, receives bids May 1 for 10-room elementary school, 14-room and auditorium colored school and gymnasium; separate bids for heating, plumbing, wiring; plans on file, Builders Exchange, Columbia St.; Builders Bldg., Charlotte, N. C.; obtained from H. D. Harrall, Archt., Bennettsville.

S. C., Ridgeland—Bd. of School Trustees, H. Klugh Purdy, Chmn., receives bids April 19 for two brick veneer schools; plans from J. H. Sams, Archt., Carolina Bk. Bldg., Columbia.

Tex., Austin—State Bd. of Control, H. H. Harrington, Chmn., erect \$50,000 dormitory at Austin State School; H. F. Kuehn, Archt., Littlefield Bldg. 4-5

Tex., Beaumont—Beaumont Ind. School Dist. voted \$1,500,000 school bonds: \$900,000 for 3-story, conc., brick and stone high school, 50 classrooms, auditorium to seat 2000; \$600,000 to be distributed as follows: Establish \$240,000 junior college in Beaumont High School, repairs and additions Averill, Junker, Millard, Magnolia, Pennsylvania, Ogden, Fletcher elementary schools, \$180,000 for additions to junior high school, erect \$100,000 negro elementary school, \$80,000 addition to negro high school; M. E. Moore, Supt. of Schools. 3-15

Tex., Coleman—City votes April 21 on \$38,000 bonds for annex to ward school. Address School Bd. 3-22

Tex., Cuero—Cuero Ind. School Dist. voted \$125,000 bonds; erect John C. French School and 20-room high school. 3-29

Tex., Dickinson—Galveston County Bd. of Education, O. E. Kennedy, Supt., Galveston, plans \$80,000 bonds for high school; R. R. Rapp, Guaranty Bldg., Galveston, preparing tentative plans, include one-story, brick and tile, Spanish type, 8 classrooms, library and laboratory.

Tex., Laredo—Ursuline Academy, reported, erect \$400,000 building for Ursuline College on blocks Nos. 689, 690, 730 and 731.

Tex., Littlefield—Littlefield Junior College erect several buildings; \$75,000.

Tex., Lyford—Lyford Ind. School Dist. Trustees receives bids Apr. 30 for 1-story, 10-room, library, study hall, brick, concrete and hollow tile elementary school and 1-story domestic arts building; separate bids for plumbing and electric work; Lloyd E. Mellor, Archt., Harlingen; Phelps & Dewees, Asso. Archts., Gunter Bldg., San Antonio; Ayres, Archts., Bedell Bldg. 2-23

plans on file Valley Branch, S. A. Builders Exchange, San Benito.

Tex., Medina—Medina Ind. School Dist. voted \$20,000 school bonds. 3-22

Tex., Mesquite—Mesquite Ind. School Dist. votes April 21 on \$30,000 bonds for ward school; Mrs. J. C. Rugel, Pres., Bd. of Trustees. 4-5

Tex., Odem—Odem Ind. School Dist. voted \$70,000 high school bonds. 3-15

Tex., Plainview—School Bd., Capt. Winfield Holbrook, Pres., having tentative plans drawn for addition to Seth Ward School.

Tex., San Antonio—School Bd. receives bids April 27 for \$56,000, 10-room and auditorium high school in South San Antonio; Phelps & Dewees, Archts., Gunter Bldg. 3-15

Tex., Sherman—School Bd., Wm. Fleming, Pres., soon call for bids for \$125,000 Washington School; 2 stories, 16 rooms, fireproof; Mark Lemmon, Archt., Construction Industries Bldg., Dallas; Clyde & Rolfe, Asso. Archts. 12-15-27

Tex., Temple—City voted \$340,000 bonds; \$115,000 to replace Lanier and Vandiver schools. 3-15

Tex., Turkey—City voted \$50,000 bonds for unit of high school, 148x87 ft., brick, 8 class rooms.

Tex., Wellington—Wellington Ind. School Dist. Trustees, E. L. Winn, Sec., erect \$125,000, 2-story, brick high school; Guy A. Carlander, Archt., 15 Massie Bldg., Amarillo; bids opened Apr. 20. 4-12

Va., Culpeper—Culpeper County School Bldg., Fred Hudgins, Chmn., receives bids April 20 for 2-story, 70x215 ft., brick, conc. school; wood floors, comp. roof; Raymond V. Long, Archt., State Office Bldg., Richmond. 4-5

Va., Freeling—Dickenson County Bd. of Education, Clintwood, erect school.

Va., Lynchburg—School Bd. erect 4-room addition to White Rock School.

Va., Richmond—Virginia Union University plans \$1,500,000 campaign, half of sum for new buildings.

W. Va., Charleston—Charleston Ind. School Dist., E. A. Babcock, Sec., receives bids April 19 for high school at Lewis, Dickinson and Shrewsbury Sts.; separate bids for general construction, plumbing and gas fitting, electric wiring, including conduit for bell system, heating and ventilating; plans and specifications at office Ware, Tucker, Silling & Hutchinson, Archts., Masonic Temple. 1-26

W. Va., Parkersburg—School Bd. erect junior high school; accommodate 2000 students; Warne, Tucker, Silling & Hutcheson, Masonic Temple, Charleston, and T. T. Sansbury, Citizens Guaranty Bldg., Parkersburg, Asso. Archts. 2-9

W. Va., Roncovevte—Fort Spring Dist. Bd. of Education, A. S. Woodhouse, Sec., receives bids April 23 for 2-story and basement, 125x114 ft., fireproof high school; also 2-story and basement, 128x60 ft., fireproof graded school; plans from Wysong & Bengston, Archts., 310 Professional Bldg., Charleston. 3-29

Stores

D. C., Washington—M. S. McPamont erect \$20,000, one-story brick store, 1506 L and 1018 15th Sts., N. W.

Ky., Louisville—Henry Fischer has permit for \$15,000 addition, 1862 Mellwood Ave.

Ky., Louisville—Otto D. Mock, 231 S. 5th St., has permit for \$40,000 store, 611-17 S. 4th St.

La., New Orleans—E. M. Reynes, Archt., 822 Perdido St., soon call for bids for \$35,000, one-story store, 1516-28 Thalia St.; struct. steel.

Mo., St. Louis—John H. Uthoff, 6815 Michigan Ave., erect \$10,000, one-story, 58x28-ft. brick store, Michigan Ave.; comp. roof; O. J. Popp, Archt., 1528 Arcade Bldg.

Mo., St. Louis—Eastman Kodak Stores, Inc., subsidiary of Eastman Kodak Co., Rochester, N. Y., acquired site 1009 Olive St., erect 4-story building.

Mo., St. Louis—Neisner Bros., Inc., Roches-

ter, N. Y., leased 5-story building, Sixth St. and Washington Ave.; expend \$200,000 to remodel for store.

Mo., Troy—Geo. McGregor erect \$30,000, 2-story and basement, 48x90 ft., brick store and office building; comp. roof, steam heat; O. J. Popp, Archt., 1528 Arcade Bldg., St. Louis.

N. C., Charlotte—Home Real Estate and Guaranty Co. has permit to erect 3-store and one 5-room brick apartment, 212-14 Providence Rd., for E. S. Reid, Jr., both 219 N. Tryon St.

N. C., High Point—Rankin, Teague & Welch have permit for \$22,000 building, Washington and College Sts.

N. C., Spruce Pine—W. G. Pippin erect 3-story, brick building; D. R. Beeson, Archt., Johnson City, Tenn.

Okla., Oklahoma City—Oklahoma Furniture Manufacturing Co., 101 E. Grand St., receives bids Apr. 26 for remodeling 6-story, brick, fireproof store; plate glass windows, tile work; Weiss, Dreyfous & Seifert, Archts., Maison Blanche Bldg., New Orleans.

Okla., Woodward—Albert Nabelsky erect \$25,000 building.

Tenn., Bristol—S. H. Kress & Co., 114 Fifth Ave., New York, reported, erect store.

Tenn., Kingsport—S. H. Kress & Co., 114 Fifth Ave., New York, plans \$75,000, 2-story and basement, 50x136 ft., brick store and warehouse on Broad St.

Tex., Coleman—J. W. Mead erect 2-story store, E. College Ave.; T. J. Galbreath, Archt.

Theaters

Ala., Dothan—Alabama Amusement Co., care Geo. E. Eichenlaub, Archt.-Engr., start work about May 1 on \$260,000, 2-story, 80x100 ft., steel, conc. theater and store; conc. floors, built-up roof; Master Builders, care architect, contrs. on fee plus cost; heating, electric wiring, plumbing awarded. See Want Section—Building Material and Equipment. 4-12

Ala., Tuscaloosa—Elks Theater owned by Joe Burchfield; loss \$35,000.

La., Ruston—Kidd-Astor Amusement Co., Inc., P. W. Baskerville, Jr., Mgr., has low bid at \$42,000 from C. E. Andrews for brick, stone trim theater; Johns-Manville roof, sheet metal, stucco, marble, tile work, cement and wood floors; F. C. McClanahan, Archt., Homer.

Miss., Amory—A. M. Menace soon start work on theater, S. Jackson St.

S. C., Gaffney—Eaves Theater Circuit, Union, remodel Strand Theater; J. B. Simpson, Archt.

Tenn., Clarksville—Crescent Amusement Co., Tony Sudekum, Pres., 215 Fifth Ave., N. Nashville, remodel 3-story brick building for theater.

Tenn., Knoxville—Public Theaters, Chas. H. Amos, Local Mgr., plans remodeling and redecorating Riviera Theater.

Tex., Edinburg—Midwest Amusement Co., Kansas City, erect \$150,000, 75x142 ft., 3-story, brick, terra cotta trim theater; seat 1800.

Va., Blacksburg—Plank & Kelsey, reported, erect \$40,000 theater, Main St.; Lewis P. Smith, Archt., 112 Kirk Ave. N. W., Roanoke.

Warehouses

Fla., Vero Beach—City, reported, erect 1-story, 32x85-ft. sheet iron warehouse.

Ga., Vidalia—Planters' Warehouse Co. erect warehouse on First St.

Ga., Vidalia—Vidalia Warehouse Co. erect 10,000 sq. ft. addition to sales house.

Tex., Corpus Christi—Alamo Iron Works advise will not erect warehouse. 4-12

Tex., Houston—J. F. B. Rawcliffe, 911 Lovett St., has permit for \$10,000 hollow tile warehouse, John Austin addition.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Tex., San Antonio—Salvation Army let contract at about \$145,000 to Ed Oeffinger, 710 Avenue A, for Spanish type bldg., Presa and College Sts.; hollow tile, stucco and rein. conc., 7 stories; Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg. 2-23

Bank and Office

Mo., St. Louis—Dr. Max A. Goldstein erect \$13,000 office addition, 3858 Westminster Ave.; 2 stories, 45x45 ft., brick, comp. roof, pine floors; Will Levy, Archt., 500 Dolph Bldg.; Hall-Mackay Construction Co., Contr., 414 Dolph Bldg.

Tex., Austin—Central Texas Iron Works, 2125 Webster Ave., Waco, has rein. steel contract for footing, basement walls, floors and basement columns of 12-story medical and professional bldg. for O. O. Norwood, Seventh and Colorado Sts. 3-15

Tex., Dallas—Cary-Schneider Investment Co., Dr. E. H. Cary, Pres., erect auditorium addition to 21-story Medical Arts Bldg., Pacific Ave. and St. Paul St., over part of garage section; also install library and hospital-clinical units on 16th and 17th floors of 17-story addition nearly completed and on 19th floor of original bldg.; final cost \$3,000,000; Herbert M. Greene, LaRoche & Dahl, architects for addition and auditorium; McKenzie Construction Co., Contr., both Const. Indus. Bldg. 4-5

Tex., Fort Worth—Fort Worth Properties Co., John T. Jones, Pres., 600 W. Tenth St., let contract to Hewitt Construction Co., for \$1,000,000 Electric Bldg.; 18 stories; Wyatt C. Hedrick, Inc., Archts., First Natl. Bank Bldg. 2-16

Tex., San Antonio—Following contracts let for \$3,000,000 Smith-Young Bldg.: Elevator doors and fronts, Dahlstrom Metallic Door Co., Dallas, rein. steel forms, Concrete Engineering Co., Bldrs. Exch. Bldg.; millwork, Schulze Planing Mill, 110 Idaho St.; elevators, Otis Elevator Co., 108 Navarro St.; metal windows, Steves Saah & Door Co., 602 Monterey St.; Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg.; McKenzie Construction Co., Contr., Travis Bldg., all San Antonio. 4-5

Va., Richmond—Davis Bros., 1716 Summit Ave., erect \$12,000 office bldg., 15 N. Sixth St.; brick, conc., and steel, 3 stories, 26x120 ft.; conc. floors, asphalt roof; L. Otis Spiers, Archt., 3418 Lloyd Ave.; owners build.

Churches

D. C., Washington—St. Albans P. E. Church, Rev. Chas. T. Warner, Rector, let contract to Chas. H. Tompkins Co., 1608 K St., N. W., 1612 Park Rd., N. W., for \$100,000 parish house; rubble stone and stucco, 2½ stories; W. I. Deming, Archt., 508 Seventh St., N. W. 3-22

Ga., Waynesboro—Presbyterian Church, Rev. Mr. Tollett, Pastor, erect Sunday school annex; 8 rooms; Wm. J. J. Chase, Archt., 140 Peachtree St., Atlanta; day labor.

Miss., Grenada—Methodist Episcopal Church, South, Rev. J. M. Holder, Pastor, let contract for \$100,000 bldg. to C. E. Lockett; brick, stone and struct. steel, 2 stories, 120x138 ft., conc. and wood floors, tile roof, steam heat; Brodie & Surman, Archts., Age-Herald Bldg., Birmingham, Ala. 10-27

Mo., Dutehtown—St. Edwards R. C. Church let contract to A. E. Feuerhahn for \$10,000 bldg.; brick, 32x70 ft.; Alvin H. Feuerhahn, Archt.

Mo., St. Louis—Mount Tabor Church, 6518 Arsenal St., erect \$12,000 brick church; 1 story, 37x108 ft., tar and gravel roof; C. Doeller, Contr., 4539 Oregon St.

Mo., University City, St. Louis—First Congregational Church, Dr. W. C. Timmons, Pastor, let contract to E. A. Brunson Construction Co., Rwy. Exch. Bldg., St. Louis, for \$175,000 auditorium, Wydown Blvd. and University Lane; brick and rein. conc., 1 story and basement, 68x121 ft.; LaBeaume & Klein, Archts., Compton Bldg.; plumbing, Meiners Plumbing & Heating Co., 6154 Page Ave.; wiring, S. & S. Electric Co., 4527 Olive St. 3-15

Tex., Houston—Third Church of Christ, Scientist, let contract to Thos. T. Hopper, Post-Dispatch Bldg., for \$50,000 bldg., Alameda Rd. and Bliz St.; hollow tile and stucco, 1 story, 100x100 ft., Mission tile roof, Celotex ceilings, conc. floors; Henry F. Jonas & Tarbor, Archts., Union Natl. Bk. Bldg. 2-16

Tex., Tenaha—First Methodist Church let contract for \$11,000 bldg. to Thomas & Sons; 2 stories, 40x60 ft., conc. foundation; furnishings, equipment, etc., \$2000; W. C. Meador, Dan Waggoner Bldg., Archt., Fort Worth. 1-5

Tex., Trinity—Methodist Church erect bldg.; S. W. Ray, Archt., Jacksonville; R. E. Meekins, Contr., Trinity.

Va., Purcellville—Baptist Church let contract for \$15,000 building to Kelley & Kelley, Bluemont; brick and tile, auditorium and 12 classrooms.

City and County

Ala., Decatur—Morgan County Bd. of Revenue let contract at \$83,750 to J. W. Chambers Lumber Co., Athens, for fireproof courthouse; 2 stories, tile and oak floors, tin roof; Bem Price, Archt., Comer Bldg.; foundation in.

Ark., Eureka Springs—City let contract at \$44,000 to Wages Bros. Lumber & Construction Co., Fayetteville, for auditorium, after plans by A. O. Clarke, Rogers; stone, 2 stories, 72x115 ft., wood floors, stone foundation, comp. roof. 4-12

Mo., St. Louis—City let contract to A. H. Haeseler Building and Construction Co., Wainwright Bldg., for \$150,000 Souldard Market and Civic Center; 2 stories, 60x148 ft., tile roof, steam heat; Albert Osburg, Archt., 3654 Meramec St.; L. R. Bowen, Engr., 5980 Page Blvd. 8-18

Okla., Oklahoma City—Oklahoma County Bd. of Commrs. let contract at \$13,075 to Jas. Beatty, 1305 N. Klein St., for 2-story bldg., Home for Dependent and Neglected Girls; Guy C. Reid, Archt., 421 W. 23rd St. 3-15

S. C., Chester—Chester County Commrs. let contract at \$77,683 to J. A. Jones Construction Co., Charlotte, to remodel and enlarge courthouse; brick, stone and rein. conc.; A. D. Gilchrist, Archt., Rock Hill. 4-5

Tex., San Angelo—Newton & Hoyt Co., 223 Wabash Ave., Chicago, Ill., has furnishings contract for \$300,000 Tom Green County courthouse; \$18,000 to \$20,000. 3-22

Tex., Stinnett—Bedford-Carthage Stone Corp. has contract for gray Indiana limestone for \$400,000 Hutchinson County courthouse; W. C. Townes, Archt., Old P. O. Bldg.; C. S. Lambie & Co., Contr., Amarillo Bldg., both Amarillo. 12-8

Dwellings

Ala., Birmingham—E. A. Crandall, 14 N. Poplar St., W. E., let contract for brick veneer residence, Forrest Park, to Paul Bros., Bonita Drive, Hollywood; brick veneer, 2 stories, comp. roof; Chas. H. McCauley, Archt., Jackson Bldg. 4-5

Ala., Birmingham—W. T. Shannon, 4322 Avenue C, let contract to Chandler Construction Co., Comer Bldg., for brick veneer residence; 1 story, tile roof; J. G. Ringer, Archt., 512 Martin Bldg.

Ala., Birmingham—Southern Pine Assn., care Grayson Lumber Co., 715 N. 39th St., erect frame, brick veneer and stucco model dwelling, Redmont Park; 2 stories, tile and hardwood floors, slate roof, steam heat; Warren, Knight & Davis, Archt., 1603 Empire Bldg.; Johnson Woolley Construction Co., Contr., 30 W. Third Ave.

Ala., Eutaw—C. M. A. Rogers erect brick veneer residence; 1 and 2 stories, hardwood, tile and linoleum floors, asbestos roof, steam heat; Miller & Martin, Archts., Title Guar. Bldg., Birmingham; owner purchases material.

Ark., Bentonville—J. R. Forner, Contr., Ritz Bldg., Tulsa, Okla., erect summer residence, Cedar Crest.

Ark., Little Rock—Arlington Heights Land Co. erect 50 brick dwellings, Oak Forest; C. M. Sandlin, Contr., 3316 W. 11th St.

D. C., Washington—A. Clarence W. Grosner, 1310 F. St., N. W., has permit for \$29,000 residence, 2611 Thirty-first St., N. W.; 2 stories, stone.

D. C., Washington—L. E. Breuninger & Sons, Colo. Bldg., has permit for 2 brick dwellings, 1816-20 Juniper St., N. W.; 2 stories; \$24,000; owner builds.

D. C., Washington—Wardman Construction Co., 1437 K St., N. W., has permit for 3 brick and tile dwellings, 2914-18 Twentieth St., N. W.; 2 stories; \$30,000; plans and constr. by owner.

Fla., Palm Beach—E. L. Stelhi erect \$66,000 addition to residence, S. Ocean Blvd.; Treanor & Fatio, Archts.; Harry Yought, Contr.

Fla., Palm Beach—Allan P. Kirby, Wilkes-Barre, Pa., let contract to Arnold Construction Co., Comean Bldg., Palm Beach, for \$100,000 residence, Via Del Mar; tile, 2 stories; 9 baths; Marion Sims Wyeth, Archt., Wyeth Bldg., Palm Beach.

Fla., Sarasota—Wm. Bird, Jr., 123 S. Michigan Ave., Chicago, Ill., let contract to H. A. Butler, Sarasota, for \$50,000 to \$75,000 residence, Indian Beach Rd.; 20 rooms; Thos. Reed Martin, Archt., 212 Main St., Sarasota. 11-24

Ga., Atlanta—Jesse A. Barrett erect residence, Northview Ave.; F. P. & Geo. J. Morris, Contrs., 104 N. Pryor St.

Ga., Atlanta—D. I. Crowley, Inc., 1247 Boulevard, erect 2 brick veneer duplexes, 831-37 Argonne Ave., N. E.; 2 stories, hardwood floors, comp. shingle roof, hot air heat; \$20,000; owner builds.

Ga., Atlanta—W. D. Evans, 615 Seminole Ave., N. E., erect \$10,000 brick veneer residence, 759 Yorkshire Rd., N. E.; 1 story,

hardwood floors, comp. shingle roof, hot air heat; day labor.

Ga., Atlanta—B. D. Fitzgerald, 738 Spring St., S. W., erect 2 duplexes, 126-28 Westminster Drive; 2 stories, hardwood floors, comp. shingle roofs, hot air heat; \$10,000; owner builds.

Ga., Atlanta—J. M. Harrison, 117 Ivy St., erect brick residence, Wesley Drive; stone trim, 2 stories and basement, hardwood and tile floors, tile or slate roof, steam heat; Ivey & Crook, Archts., Candler Bldg.

Ga., Atlanta—P. B. Hopkins, 433 Palmer Bldg., erect 2 brick veneer dwellings, 1460-66 Boulevard, N. E.; 1 story, 6 rooms and bath, hardwood floors, comp. shingle roofs, hot air heat; \$10,000; day labor.

Ga., Atlanta—Capt. W. G. Roger, 45 Hathersham Rd., N. E., erect \$50,000 residence; English type, 2 stories and basement, 125x35 ft., brick veneer and half timber, hardwood and tile floors, steam heat; Cooper & Cooper, Archts., Bona Allen Bldg.; owner builds.

Ga., Atlanta—J. E. Hobson, 509 Wabash Ave., N. E., erect residence, Morningside Drive; F. P. & Geo. J. Morris, Contrs., 104 N. Pryor St.

Ga., Atlanta—Mrs. Gilbert Little erecting English type residence, Bolling Rd., Garden Hills; F. P. & Geo. J. Morris, Contrs., 104 N. Pryor St.

Ga., Atlanta—J. W. Wingate erect residence, Warren St., Kirkwood; F. P. & Geo. J. Morris, Contrs., 104 N. Pryor St.

Ga., Griffin—F. A. Estill erect \$12,000 residence, Paulsen and 40th Sts.; brick veneer, 7 rooms, steam heat; Griffin Realty & Construction Co., Contr.

Ga., Vidalia—D. C. Patillo erect \$15,000 residence, Sixth St.; work started.

Ga., Vidalia—A. Rushton started work on residence, Jackson St.

La., New Orleans—D. A. Casey, 6612 Canal Blvd., erect single raised residence, 6620 Canal Blvd.

La., New Orleans—O'Neill Labaud, 3525 St. Anthony St., erect double residence, Hillary St. near Jeannette St.

La., New Orleans—H. Perlman, Contr., 2531 S. Broad St., erect duplex, Lopez St. near Elba St.

La., New Orleans—P. Montelepre erect \$15,000 single raised residence, Franklin Ave. near Miro St.; 26x84 ft.; Saputo & Governall, Contrs., 601 N. Claiborne Ave.

La., New Orleans—S. J. Mulla, 8915 Pear St., erect double residence, 8620 Marks St.

La., New Orleans—A. Rosengarten, 2613 Carondelet St., erect 2 duplexes, Pine St. nr. Pitt St.; R. J. Walker, Contr., 2232 Cadiz St.

Md., Baltimore—Chas. E. Starnier, 518 Hurley Lane, erect \$10,000 residence, 3505 Shelbourne Rd.; 2 stories, 28x40 ft., slate roof, hot water heat; plans and constr. by owner.

Md., Baltimore—T. T. Tongue, 30 S. Calvert St., erect \$15,000 residence, 632 Belvedere Ave.; stone, 3 stories, 73x33 ft., slate roof, hot water heat; H. A. Stilwell, Archt.; Peyton B. Strobel Co., Contr., both 206 E. Lexington St.

Md., Baltimore—Lewis F. Troza erect \$10,000 frame residence, 222 Goodall Rd.; 2½ stories, 26x38 ft., slate roof, hot water heat; Lewis & Winterhaver, Archts.; Henry Page, Contr.

Md., Baltimore—M. B. Essers, 2320 Eutaw Pl., erect stucco bungalow, Copleigh and Wellington Sts., Stoneleigh; Stoneleigh Corp., Contr., 104 N. Liberty St.

Md., Baltimore—G. M. Fava, 18-20 E. Pratt St., let contract to F. Tranzillo, Lanvale and Dickenson St., for \$18,000 residence, 1600 Roland Ave.; 2½ stories, 36x46 ft., slate roof, steam heat; F. Thomas, Archt., 726 E. 33rd St. 3-29

Md., Baltimore—Wise Construction Co., 3517 Forest Pk. Ave., erect 10 brick dwellings, 701-19 S. Seventh St.; 2 stories, 15x40 ft.; plans and constr. by owner.

Md., Baltimore—J. Mabel McPhail erect \$10,000 residence and garage, 318 Broxton Rd.; 2 stories, 49x35 ft. and 16x20 ft., slate roofs, hot water heat; H. A. Stilwell, Archt.; Peyton B. Strobel Co., Contr., both 206 E. Lexington St.

Mo., Clayton, St. Louis—H. L. Convers, Granite City, Ill., erect 2 brick dwellings, Big Bend Rd.; 26x36 ft.; \$10,000; owner builds.

Mo., Kirkwood, St. Louis—Elizabeth B. Jeffries, 733 N. Kirkwood Rd., erect \$10,000 residence, 410 Way Ave.; 2 stories and base-hardwood floors, comp. shingle roof, hot air ment, 30x32 ft.; hardwood floors, comp. shingle roof, hot air heat; Dan Mullen, Jr.,

Archit., Seven Gables Bldg., Clayton; owner builds.

Mo., Moberly—E. Faessler let contract at \$18,362 to T. R. Bell for brick veneer, stucco and stone residence; 2 stories and basement, 59x28 ft., 2-car garage; Ludwig Abt, Architect. 3-22

Mo., St. Louis—F. Kohougowski, 3811 Wyoming St., erect \$10,000 residence, 3926 Federer Place; 2 stories, 42x28 ft., slate roof, hot water heat; H. W. Guth, Archt., 813 Chestnut St.; M. G. Heinos, Contr., 3811 Wyoming.

Mo., St. Louis—Rev. J. J. Glennon erect \$25,000 dwelling, 3117 Lismore St.; 2 stories, brick, 46x76 ft., hot water heat; H. P. Hess, Archt., Ambassador Bldg.; W. Diemert & Son, Contrs., 2706 Galdwin St.

Mo., St. Louis—W. Harding, 5349 Janet St., erect 3 brick dwellings, 1016-20-22 Wall St.; 1 story, 24x38 ft., comp. roofs, hot air heat; \$10,000; owner builds.

Mo., St. Louis—Queens Investment Co., 4533 N. Kingshighway, erect 4 brick dwellings, 4900 block Theodore St.; 1 story, 25x35 ft., asphalt shingle roofs, hot air heat; \$16,000; R. Sever, Archt., 5201 Alcott St.; C. Wilcox Contracting Co., Contr., 4533 N. Kingshighway.

Mo., St. Louis—H. M. Straub, 110 N. Eighth St., erect 3 brick dwellings, 4343-47-49 Korte St.; 1 story, 27x39 ft., comp. shingle roofs, hot air heat; \$13,500; B. Shapiro, Archt., 4202 Holly St.; Korte Realty & Loan Co., Contrs., 110 N. Eighth.

Mo., St. Louis—W. P. Volz, 4800 Kansas St., erect 4 brick dwellings, 4974-78-92-96 Fairview St.; 1 story, 25x43 ft., asphalt shingle roofs, warm air heat; \$16,000; F. G. Avis, Archt., 1019 Big Bend Rd.; owner builds.

Mo., St. Louis—J. Chapman Realty & Bldg. Co., 5477 Delmar Blvd., erect 4 brick dwellings; 1 story and basement, 25x28 ft., oak floors, tile baths, asphalt shingle roofs, \$22,000; O. J. Popp, Archt., Arcade Bldg.; work by sub-contracts.

Mo., St. Louis—L. E. Balkin, 5601 Waterman Ave., erect \$15,000 residence, Fauquier Ave.; brick, 2 stories and basement, 42x39 ft.; Gale E. Henderson, Archt., Arcade Bldg.; John Craig & Sons, Contrs., 6337 Southwood Ave.

Mo., St. Louis—J. C. Brockmeier, 5127 Lexington Ave., erect 3 brick dwellings, Renly sub-division; 1 story and basement, 28x28 ft., hardwood floors, tile bath, asphalt shingle roof, hot air heat; Geo. C. Willmering, Archt., 4118A W. Florissant St.; owner builds.

Mo., St. Louis—Harry J. Burkhart, 7 Schultz Rd., let contract at \$65,000 to Geo. Griffiths Construction Co., 705 Olive St., for residence; rein. conc. slab, metal lath, Belay (Berger) steel joist, 2 stories, 40x83 ft., cement finish and tile floors, Roofcrete tile roof; Chas. H. Deitering, Archt., 705 Olive St.

Mo., St. Louis—John E. Hopkins, 5514 Clemens Ave., erect \$10,000 residence, 6130 Lucille Ave.; brick, 2 stories and basement, 32x34 ft., hardwood floors, tile bath, asbestos roof, hot water heat; owner builds.

Mo., St. Louis—E. A. Livingston, 3515 Hartford St., erect \$10,000 frame stucco residence, Osage Hills; 2 stories and basement, 28x33 ft., hardwood floors, conc. foundation, tile bath; owner builds.

Mo., St. Louis—E. C. Moody, 5321 Lotus Ave., erect \$10,000 residence, 6166 Garesche Ave.; brick, 2 stories and basement, 25x41 ft., hardwood floors, asbestos shingle roof, tile bath, hot water heat; Gerhard Becker, Archt., 425 Georgia Ave., Ferguson; G. Franklin, Contr., 4208 Page Blvd., St. Louis.

Mo., St. Louis—C. S. Reynolds, 700 Wainwright Bldg., erect 2 brick dwellings, 4620-22 Rosalie Ave.; 2 stories and basement, 24x24 ft., hardwood floors, tile baths, asphalt shingle roofs, hot air heat; owner builds.

Mo., St. Louis—E. C. Steffen, care John J. Clark Construction Co., Arcade Bldg., erect \$30,000 residence, Fair Oaks; brick, 2 stories and basement, about 55x44 ft., hardwood floors, tile roof and bath.

Mo., St. Louis—J. T. Travers, care Gale E. Henderson, Archt., Arcade Bldg., erect brick residence, Northmoor Park; 2 stories and basement, 34x38 ft., comp. and slate roof, tile bath, slate roof, steam heat; work by sub-contract.

Mo., St. Louis—M. Villa, 1719 Russell Ave., erect \$10,000 brick residence, 5812 Michigan Ave.; 2 stories and basement, 29x38 ft., hardwood floors, asphalt shingle roof, tile bath, hot water heat; Adolph Stauder, Archt., 6032 S. Kingshighway; C. Dallas, Contr., 460 Dover Place.

Mo., St. Louis—W. Kistner, 4808 St. Louis Ave., erect \$10,000 brick residence, 4626 Bes-

sie Ave.; 1½ stories and basement, 26x46 ft., hardwood floors, stone foundation, asbestos shingle roof, hot air heat; Schulte & Turling, Archts., Grand & St. Louis Bldg.; owner builds.

Mo., St. Louis—T. Lipokatty, 5404 Itaska St., erect 2 brick dwellings; 1 story and basement, 26x37 ft., hardwood floors, comp. shingle roof, tile bath, hot water heat; \$10,000; Hiram Phipps, Archt., 4162 Castleman Ave.; J. M. Tarde, Contr., 5404 Itaska.

Mo., St. Louis—St. Augustine R. C. Church, 3114 Lismore St., let contract to Wm. Diemert & Son, 2706 Baldwin St., for \$40,000 parochial residence; brick, 2 stories, 42x60 ft., stone foundation, slate and Certain-teed roof; Henry P. Hess, Archt., Ambassador Bldg. 4-5

Mo., St. Louis—Northwestern Realty Co., 2921 N. Grand Blvd., erect 17 dwellings, Bingham Ave., Gravois Park; brick, 1 story and basement, 25x42 ft.; owner builds.

Mo., University, St. Louis—R. A. & G. B. Bullock, Fullerton Bldg., erect 3 brick dwellings, 7333-37-43 Princeton Ave.; 2 stories and basement, 29x31 ft., hardwood floors, slate roofs, hot water heat, garages; \$30,000; Nolte & Nauman, Archts., Fullerton Bldg.; owner builds.

Mo., University City, St. Louis—John F. Gerst, 4429 Elmbank St., erect \$10,000 residence, 7101 Cambridge Ave.; 2 stories, 32x42 ft., tile roof, hot air heat; Geo. P. Willmering, Archt., 4118 W. Florissant St.; H. Geo. Mueller & Sons, Contrs., 2304 Montgomery St.

Mo., University City, St. Louis—H. H. Johnson, 473 Norcum Ave., Webster Groves, erect \$12,000 brick residence, 668 Vassar Ave.; 2 stories and basement, 44x32 ft., hardwood floors, asphalt shingle roof, tile baths, hot water heat; T. L. Johnson, Archt., 6925 Columbia Ave.; owner builds.

Mo., University City, St. Louis—J. L. Lawrence, 610 Chestnut St., erect \$12,500 brick residence, 7255 Greenway; 2½ stories, 37x55 ft., comp. flat and slate steel roof, hot water heat; Nolte & Nauman, Archts., Fullerton Bldg.; Geo. F. Bergfeld Co., Inc., Contrs., 610 Chestnut.

N. C., Charlotte—Mrs. H. G. Howie erecting 5 dwellings, Mecklenburg Ave.; Home Real Estate and Guaranty Co., Contrs., 219 Tryon St.

N. C., Overhills—Mrs. John D. Rockefeller, 4 W. 54th St., New York, erect \$100,000 residence; fireproof, stone, brick and marble; Hiss & Weekes, Archts., 18 E. 49th St., New York; Reinecke, Dixon Construction Co., Contr., Fayetteville, N. C.

N. C., Wilmington—E. W. Godwin & Sons erect 3 brick bungalows, Castle Hayne Highway.

N. C., Winston-Salem—Burge-Lloyd Building Co. started work on 3 dwellings.

S. C., Fort Mill—J. A. Greene erect \$12,000 residence; brick veneer, 2 stories and basement, 68x63 ft., hardwood, pine and tile floors, comp. shingle roof; Julian S. Starr, Archt.; E. D. Bowers, Contr., both Rock Hill. See Want Section—Building Material and Equipment.

S. C., Whitmire—Aragon-Baldwin Mills let contract to Carolina Construction Co. for 25 operatives' dwellings; frame, 1 story, pine floors, Grant comp. shingle roofs; \$40,000; J. E. Sirrine & Co., Engrs., both Greenville. 3-29

Tenn., Knoxville—W. E. Cooper, 325 W. Clinch St., erect 5 bungalows, Beverly Ave. addition; Helsley & Son, Contrs.

Tenn., Knoxville—North Hills Co. started work on \$20,000 dwelling, North Hills; Spanish type, stucco, balcony, 9 rooms; H. B. Fielden, Contr.

Tenn., Martin—Bob Jones erect brick veneer bungalow, Mississippi Valley Highway near Martin; 6 rooms; Will Dildine, Contr.

Tenn., Memphis—R. B. Clinton erect \$20,000 brick veneer residence, Chickasaw Gardens; 2 stories and basement, oak floors, steam heat, garage and servants' quarters; Clinton Building Co., Contr., both 150 Union Ave.

Tenn., Memphis—Mrs. Mary H. Elliott, 1293 Tutwiler Ave., erecting 6 duplexes, S. Main St.; 1 story, 25x32 ft., pine floors, comp. roofs; Childs Bros., Contrs., 859 Ayers St.

Tenn., Memphis—H. H. Higbee, 47 Porter Bldg., erect \$10,000 residence, 1864 Tutwiler Ave.; brick veneer, 1 story and basement, 34x55 ft., oak floors, comp. shingle roof, tile bath, hot water heat, garage; owner builds.

Tenn., Memphis—Mrs. Geo. H. Partin, 1685 Galloway St., erect \$10,000 duplex; 2 stories and basement, 37x52 ft., oak floors, tile bath, comp. shingle roof, hot water heat; N. A. Sundholm, Contr., 1543 Carr Ave.

Tenn., Memphis—S. Weiss, 1920 Mignon St., erecting 2 brick veneer dwellings, 910-14 N. Belvedere Blvd.; 1 story and basement, 28x44 ft., oak floors, comp. shingle roof, tile baths, hot water heat, garages; owner builds.

Tenn., Memphis—Wm. White, Amer. Bk. Bldg., erect 3 brick veneer dwellings, 300 block Edsel St.; 1 story and basement, 37x40 ft., oak floors, tile baths, comp. shingle roof, garages; E. T. DePass, Contr., 1537 Netherwood St.

Tex., Austin—Mrs. S. W. Fisher, 2100 Guadalupe St., let contract for \$16,000 residence to C. E. Spurlin, 202 E. Live Oak St.; stucco on metal lath, 2 stories, 42x40 ft., hardwood and tile floors, rein. conc. foundation, tile roof; Wm. Defter, Archt., care Calcasieu Lumber Co., 311 W. Second St. 4-5

Tex., Brady—Ira Mayhew let contract to W. M. Harrison & Son for \$16,000 English type residence; brick and hollow tile, 1 story and basement, 7 rooms; Beverly W. Spillman and Beverly W. Spillman, Jr., Archts., Alamo Bk. Bldg., San Antonio. 3-15

Tex., Brownsville—C. R. Tyrrell let contract for \$25,000 residence to Walsh & Burney, 928 N. Flores St., San Antonio; brick, 2 stories, conc. foundation; Wm. D. Van Sieten, Archt., Brownsville. 4-12

Tex., Dallas—Lang Wharton, 3701 Crescent St., erect English type residence, Turtle Creek Blvd., Highland Park; stone, brick and half timber, 2½ stories and mezzanine, 3 baths; C. H. Griesenbeck, Archt.; Walter Whitley, Contr., 3000 Knox St.

Tex., Dallas—J. T. Coulson, 3509 Dartmouth St., erect \$18,500 residence, Lorraine Ave., Highland Park, west; English type, brick, Oklahoma field stone trim, slate roof, 2 baths; C. H. Griesenbeck, Archt., Const. Indus. Bldg.; McGraw & Martin, Contrs.

Tex., Houston—W. G. Fields, 6400 Harrisburg Rd., let contract to W. J. Shelton for \$10,000 duplex, 2710 Rosedale St.; brick veneer, 2 stories, 12 rooms, tile roof. 4-12

Tex., Nazareth—Chas. Heck erect \$16,000 ranchhouse near Nazareth; Guy A. Carlander, Archt., 15 Massie Bldg.; Story & Ross, Contrs., both Amarillo.

Tex., San Antonio—Mrs. Amye Bozarth, 221 Devine Rd., erect 2 Spanish type dwellings, Olmos Park; frame and stucco and rock veneer; John M. Marriott, Archt., Frost Bldg.; owner builds; drawing plans.

Tex., San Antonio—John Morris, 809 Brady Bldg., erect \$16,000 duplex, 1511 Mistletoe St.; 2 stories, 10 rooms; owner builds.

Government and State

D. C., Washington—Georgia Marble Co., Tate, Ga., has exterior marble contract for \$1,500,000 administration bldg. for Department of Agriculture; structure granite and marble, struct. steel frame, conc. foundation, 5 stories, 175x180 ft., wood, tile, marble, slate and cement floors, comp. roof; Rankin & Kellogg, Archts., 1805 Walnut St., Philadelphia, Pa.; Edw. H. Bennett, Const. Archt., 180 E. Jackson Blvd., Chicago. 4-12

Md., Baltimore—John B. Wallis, Reisterstown Rd., erect \$10,000 bldg., 4614 Belvedere Ave., to be leased to Government for post office; 50x107 ft., 1 story, slag roof, steam heat; Henry A. Knott & Co., Contrs., 2107 N. Charles St.

N. C., Fort Bragg—Constructing Quartermaster let contract at \$365,850 to W. P. Rose Co., Goldsboro, for 2 field artillery battalion barracks, Fort Bragg; 6 company officers' quarters and 7 non-commissioned officers' quarters to W. T. Gregory, Law Bldg., Norfolk, Va., at \$113,919. 3-12

W. Va., Berkeley Springs—State Bd. of Control, Jas. S. Lakin, Pres., Charleston, erect \$25,000 bathhouse, State Park, Wm. Young, Berkeley Springs, in charge of constr.; R. A. Gilles, State Archt. 1-26

Hospitals, Sanitariums, Etc.

Md., Baltimore—Union Memorial Hospital let contract to Benj. F. Bennett Building Co., 123 S. Howard St., for \$500,000 Fredk. Bauernschmidt Memorial Bldg.; 6 stories, 42x175 ft., brick-bearing walls, slate roof, tile deck for roof garden, cement and terrazzo floors, extend steam heating system; 128 beds; Jos. Evans Sperry, Archt., Calvert Bldg.; Herman F. Doeleman, Struct. Engr.; Chas. L. Reeder, Mech. Engr.

N. C., Marion—Marion General Hospital, C. F. James, Pres., let contract for \$50,000 fireproof hospital to J. M. McGalliard, Morganton; brick, tile and stucco, 3 stories, attic and basement, 40x96 ft., 28 beds, wood and comp. floors; Beacham & LeGrand, Archts., Medical Bldg., Asheville. 2-23

Tex., Lockhart—Lockhart Sanitarium started work on \$10,000 addition; X-ray machine.

Hotels and Apartments

Ala., Birmingham—Earl Cline, 1011 N. 10th St., erect two \$20,000, 2-story, 37x71 ft., brick veneer apartments, 12th Ave. and 16th St.; owner builds.

Ala., Birmingham—Robt. T. Harris, 2605 S. 10th Ave., erect two \$11,000, 2-story, 40x55 ft., brick veneer apartments; owner builds.

Ala., Tuscaloosa—Morrison Realty Co., 2015 N. 4th Ave., erect 2-story, 90x105 ft., brick veneer, stone trim apartment; Edw. D. Slater, Archt., Martin Bldg., Birmingham; owner builds.

D. C., Washington—Wardman Construction Co., 1437 K St., N. W., soon start work on \$2,000,000, 350-room addition to Wardman Park Hotel; plans by M. Mesrobian, Archt. for company.

Miss., Aberdeen—Aberdeen Lumber Co., Chas. Treas., Mgr., erect three 6-apartment buildings; brick, steam or hot water heat, Frigidaires, in-door beds; owner builds and supply own material.

Mo., Clayton, St. Louis—Karl Hilber, 4017 Jennings Rd., erect \$10,000, 40x50-ft. brick flat, Lexington and Jennings Rd.; Nash Construction Co., Bldr., 212 N. Sarah St.; J. Becker, Archt.

Mo., Columbia—Following sub-contracts awarded on \$375,000, 9-story, rein. conc. brick, tile, 103x100 ft. hotel, 8th St. near Broadway, for which Simon Construction Co., 314-18 Guitard Bldg., has general contract: Heating, Eichler Heating Co., Railway Exchange Bldg., St. Louis; plumbing, J. Louis Crum, 7th and Broadway; marble, A. Sutermeister Cut Stone Co.; rein. steel, Concrete Engineering Co., Walsch Bldg., both Kansas City; misc. iron and steel, struct. steel, Mississippi Valley Structural Steel Co., Arcade Bldg., St. Louis; comp. roof, conc. floors and roof, Alonzo H. Gentry, Archt., March Bldg., Kansas City; Hans Von Unwerth, Finance Bldg., and Cook & White, Mutual Bldg., Kansas City, Engrs. 10-13-27

Mo., Kansas City—Wm. D. Snyder, Owner-Bldr., Commerce Bldg., started excavation for two 9-story, brick, terra cotta trim apartments, 1017-21 E. Linwood Blvd.; 80 suites, shops on ground floor; P. T. Drotts, Archt., 423 Reliance Bldg. 12-8

Mo., Kansas City—McCanles Building Co., 400 Victor Bldg., erect Villa Locarno Apartment, Brush Creek and Ward Parkway, 10 stories, 94 suites, Italian Renaissance type.

Mo., St. Louis—H. C. & F. Hartmann, 5748 W. Florissant St., erect \$25,000, 3-story, store, office and tenement, 5736-38 W. Florissant St.; 50x40 ft., brick, tar and gravel roof, steam heat; F. H. Peiper, Archt.; Rottersmann Realty & Investment Co., Contr., both Arcade Bldg.

Mo., St. Louis—J. Herzog, 6215 Cabanne St., erect \$14,500, 2-story, 90x29-ft., brick tenement, 5333-27 Wabada St.; comp. roof, hot air heat; Davie & Herzog, Archts.-Bldrs., 6217 Cabanne St.

Mo., St. Louis—Mrs. C. Koehler, 3334 California St., erect \$25,000, 3-story, 40x66-ft., brick store and tenement, 3819-23 Kingshighway; conc. roof, steam heat; O. J. Popp, Contr.; R. Koehler, Archt., 3334 California St.

Mo., St. Louis—I. Lund, 4505 San Francisco St., erect four 2-story, 24x45-ft., brick tenements, 4312-20 N. Euclid Ave.; \$24,000; asphalt shingle roofs, hot air heat; C. E. Lund, Contr., 4505 San Francisco St.

Mo., St. Louis—Paramount Construction Co. erect 12-family apartment, Page Blvd. and Union St.

Mo., St. Louis—West End Realty & Construction Co., 3416 Union St., erect 2-story tenements, 3704-10 and 3705-11 Hereford St.; 92x37x55 ft., brick, tar and gravel roofs, steam heat, \$40,000; C. L. Thurston, Archt., 130 Kenilworth St., Webster Groves; owner builds.

Mo., St. Louis—G. Woodward, 5220 Steffens St., erect \$10,000, 2-story, 34x48-ft., brick tenement, 5906-8 Arendes St.; comp. shingle roof, hot air heat; G. W. Tripp Real Estate Co., Contr.; T. Tripp, Archt., both 4455 Gravois St.

Mo., St. Louis—S. Zida, Channing and Laclede Sts., erect \$12,000, 2-story, 60x35-ft. brick tenement, 8-10 N. Channing St.; comp. roof; Magidson Contracting Co., Contr., 212 Title Guaranty Bldg.; G. W. Wolf, Archt., Bank of University Bldg.

Mo., St. Louis—H. C. Hartman, 208 Imperial Bldg., soon start work on 3-story, fireproof store, office and apartment building, W. Florissant St. and Robin Ave.; construction under supervision Ferd H. Piepers, Archt., Arcade Bldg.

Mo., St. Louis—Joseph Kohn erect 4-family

apartment, Forsythe Blvd.; construction under supervision Ferd H. Piepers, Archt., Arcade Bldg.

Mo., St. Louis—Rottersmann Realty & Investment Co., Emil Rottersmann, Pres., erect series 3-story, fireproof apartments, Whittier St.; each 24 suites, costing \$100,000; construction under supervision Ferd H. Piepers, Archt., Arcade Bldg.

Mo., St. Louis—Wm. Taylor, 111 N. 7th St., erect 2-story, 34x47 ft., brick apartment, Alcott and Prange Sts.; F. G. Avis, Archt., 1019 Big Bend Blvd.

Mo., University City, St. Louis—S. R. Potter, 6124 Waterman St., started work on \$12,000, 2-story and basement, 28x47 ft. apartment, 7110 Tulane Ave.; tile roof, hardwood floors; E. B. Kelley, Archt., 6625 Delmar Ave.; B. H. Prater, Contr., 7235 Stanford Ave.

Mo., University City, St. Louis—Charles B. Caudle erect \$10,000, 2-story brick flat, 842 Pennsylvania St.; 28x50 ft., tile roof, hot water heating, S. C. Peterson, Contr., both 6346 Delmar Blvd.

Mo., University City, St. Louis—Edw. Hill, 1227 Blackstone St., erect \$10,000, 2-story, brick flat and garage, 7325 Lindell Ave.; tile roof, hot water heat; Berry Hill, Contr., 4064 Olive St.; Carl C. Eitz, Archt., Overland, Mo.

Tenn., Memphis—Thos. H. Allen, Bank of Commerce Bldg., erect addition and remodel building, McCall Ave. and Front St.; \$15,000; Hanker & Cairns, Archts., Court Square Bldg.

Tenn., Nashville—C. L. Whitsitt, Howard Apartment, started excavation on \$400,000, 3-story, 70x87 ft., brick apartment, 1707-09 17th Ave. S.; comp. shingle roof, stone foundation; Boone Contracting Co., Contr.; Geo. D. Nevins, Archt., both Ind. Life Bldg. 4-12

Tex., Franklin—National Hotel, Mrs. R. H. Rucker, Prop., erect brick veneer hotel; Rabe Wilson, Contr., 1008 Franklin St., Waco.

Tex., Galveston—W. L. Moody, Jr., 2028 D St., let contract to Bellows-Maclay Construction Co., 2101 F St., for \$1,000,000, 11-story, 400-room Buccaneer Hotel, Seawall Blvd. and 23rd St.; Spanish renaissance design, brick, rein. conc., steel, fire and hurricane proof, recreation room, solarium, ballroom and hall to seat 500, roof deck, open air dining room; Andrew Fraser, Archt., American Nat'l Insur. Bldg.; purchased Beacon Hotel for annex, furnishing storage space. 12-15-27

Tex., Houston—M. P. Holman erect \$10,000, 2-story brick veneer apartment, 1923 Baltimore St.; C. F. Butler, Contr.

Tex., Pecos—Austin Bros., Dallas, have contract for steel work for \$150,000, 3-story, fireproof, brick and tile hotel for Graham Hotel Co., for which Poff Construction Co. has general contract on cost plus basis; plumbing, W. E. Brack; lumber, cement, plastering, lime, Clay Lumber Co.; W. Y. McAttee, Archt. 3-22

Tex., Presidio—Presidio Hotel Corp., R. I. Bledsoe, H. B. Bagley, soon start work on 3-story, Stone-Tile hotel; Pueblo and Aztec design; Walsh & Burney, Contrs., 928 N. Flores St.; P. G. Silber, Archt., Bedell Bldg., both San Antonio.

Va., City Point—R. W. Solt erect 18-family apartment; S. King Fulton, Contr., 1001-02 State Planters Bank, Richmond.

Va., Norfolk—Afton Arms, Inc., erect \$85,000, 21-family apartment, Gates Ave. and Hampton Blvd.; Blaine Graham Construction Co., Contr.; A. O. Ferebee, Archt., both Arcade Bldg.

Va., Richmond—Rosewood Construction Co., Amer. Natl. Bk. Bldg., erect \$120,000, 3-story, brick and stone apartment, 1411 Grove Ave.; Carl M. Lindner, Archt., State and City Bk. Bldg.

Va., South Boston—South Boston Hotel Corp., J. E. Galleher, Pres., care Wheeler, Galleher & Co., 1007 E. Main St., Richmond, plans Hotel South Boston; \$160,000; 4 stories, 54 rooms, fireproof; Lee, Smith & Van Devort, Archts.-Engrs., Sixth and Franklin Sts.; J. R. Jones & Conquest, Contrs., Amer. Nat'l Bk. Bldg., both Richmond. 3-8

Miscellaneous

Tex., San Antonio—Servants of Holy Ghost, 1551 Yucca St., erect \$119,000 brick and tile chapel and dormitory; Dielmann Construction Co., 306 E. Commerce St.

Va., Norfolk—Norfolk Boat Club, Chas. Jenkins, Chmn. Bldg. Comm., Citizens Bk. Bldg., erect clubhouse to replace burned structure; W. T. Gregory, Contr.; Peebles & Ferguson, Archts., both Law Bldg. 3-15

Schools

Ark., Fayetteville—Chi Omega Fraternity, University of Arkansas, erect \$20,000 fraternity house; 3 stories and basement, hollow tile, stucco and brick; Wages Brothers, Contrs.

Ark., Springdale—School Bd. let contract at \$49,875 to Linebarger & Martin for Junior-Senior High School; auditorium to seat 700, 60x180 ft., 3 stories, brick, cement and tile, built-up roof; James Dinwiddie, Archt., Fayetteville. 1-19

Fla., Gainesville—Sigma Chi Fraternity, University of Florida, started work on \$25,000 chapter house.

Ga., Adel—School Bd. erect 5-room consolidated Bush Creek School; R. L. Tillman, Contr., Atlanta.

Ga., Athens—University of Ga., Dean S. V. Sanford, Chmn., Athletic Assn., started excavation for \$200,000 stadium; seat 30,000; purchase material and do work under supervision Capt. J. W. Barnett, City Engr.; Atwood & Nash, Archts.-Engrs., Chapel Hill, N. C. 4-12

Ga., Atlanta—Bd. of Education, R. R. Richtie, Supt., let contract at \$534,000 to Joe W. Stout & Co., Inc., Sanford, N. C., for following: Haygood-State and Grant Park School additions, Edgewood Ave., Morning-side, Whiteford Ave. schools; brick, fireproof corridors and stairs, Barrett roofs, maple floors; G. Lloyd Preacher & Co., Inc., Archts., Wynne-Claughton Bldg. 4-5

Md., Baltimore—Friends School, Wm. S. Pike, Chmn., Bldg. Comm., Park Ave. and Laurens St., let contract to Thomas Hicks & Sons, Inc., 106 W. Madison St., for first unit of school; \$300,000; Gothic type, 3 stories, stone, steel and conc., slate roof, conc. and linoleum floors; Mottu & White, Archts., 527 N. Charles St. 4-5

Miss., Baldwin—Bd. of Education let contract at \$27,895 to W. L. Davis Lumber Co. for one-story, rein. conc., brick and stone trim school; Walter R. Nelson, Archt., Shrine Bldg., Memphis, Tenn. 3-22

Miss., Decatur—School Trustees, E. R. Rowzee, let contract at \$42,400 to Howell Construction Co., Philadelphia, Miss., for 1-story, 206x150-ft. brick and tile school; equipment, furnishings, \$7000; wood floors, conc. foundation, built-up roof; Burt Stuart, Archt.-Engr., 1401 24th Ave., Meridian. 3-29

Miss., Hollandale—Hollandale School Dist. Trustees, F. T. Gilley, Pres., let contract at \$77,000 to Oden & Glenn, Hattiesburg, for 1-story, 265x125-ft., rein. conc., brick and stone trim school; rein. conc. foundation, cast stone, struc. steel and misc. iron, wood sash, sheet metal work; J. M. Spain, Archt., Millsaps Bldg., Jackson. 4-12

Miss., Oxford—School Bd., Dr. J. E. Hargis, Sec., let contract at \$50,045 to E. G. Parish Construction Co., Jackson, Tenn., for 2-story and basement, brick, stone trim school; C. H. Lindsley, Archt., Lamar Bldg., Jackson, Miss. 4-12

Mo., St. Louis—Rt. Rev. J. J. Glennon, Lindell and Taylor Sts., has permit for \$50,000, 2-story, 79x113-ft., brick school addition, 5216 N. 21st St.; slate roof, steam heat; T. Hoffmeyer, Contr., 2006 Harris St.; H. P. Hess, Archt., Ambassador Bldg.

N. C., Davidson—Michael & Bivens, Inc., 218 W. Market St., Greensboro, have contract for electrical work in Chambers Building, Davidson College; Henry C. Hibbs, Archt., Am. Trust Bldg., Nashville, Tenn.; Blythe & Isenhour, Gen. Contr., Brevard St., Charlotte. 4-5

N. C., New Hope—Iredell County Bd. of Education, Statesville, let contract at \$33,989 to Home Construction Co., Durham, for 10-room elementary school.

Tenn., Martin—University of Tennessee, Dr. C. A. Wilson, Dean, Knoxville, let contract to N. B. Williams for dairy and stock barn at University of Tennessee Junior College. 3-1

Tex., Bellaire—Harris County Commrs., Houston, let contract at \$49,039 to Washburn & Goyen for Harris County School for Girls; 2 stories, brick and tile, tar and gravel roof, tile and cement floors; Lamar Q. Cato, Archt., Bankers Mortgage Bldg., Houston. 1-19

Tex., Denton—College of Industrial Arts, W. M. Loveless, Bus. Mgr., let contract at \$120,470 to Bailey, Burn & Fitzpatrick, Merc. Bk. Bldg., Dallas, for 3-story, rein. conc., brick, stone dormitory; heating and plumbing, \$18,904, A. F. McClain, Fort Worth; electric, \$3107, Electric Shop; Shirley Simon, Archt., Lufkin. 3-29

Tex., Eastland—Warner Memorial University, Dr. J. T. Wilson, Pres., Box 6, let contract to J. H. Myer, Sweetwater, for administra-

tion, 2 dormitories and dining hall; \$100,000; brick and tile, 2 stories, wood floors, asphalt roof, conc. foundation; W. C. Bryant, Archt., Sweetwater. 3-29

Va., Richmond—Christ Church School, Middlesex County, Rt. Rev. H. St. George Tucker, D. D., Pres., Board of Trustees, plans several buildings; cost \$120,000.

Va., Williamsburg—College of William and Mary let contract at \$173,940 to J. W. Davis, Newport News, for 3-story, fireproof Academic and Biological Building; slate roof, conc. and brick foundation; heating, \$9500, R. W. Holmes; Chas. M. Robinson, Archt., Times-Dispatch Bldg., Richmond. See Want Section—Miscellaneous. 3-22

Stores

Fla., Jacksonville—C. F. Sallas, 916 King St., erect \$10,000, 2-story brick store and apartment, King St.; J. C. Snead, Archt., 562 Ogram St.

Ga., Hawkinsville—Sam Sommer remodel store to be occupied by Friedlander Bros. Co.; C. M. Arnold, Contr.; Frank R. Happ, Archt., both Macon.

Ga., Savannah—Isaac and Albert Blumberg, 3 W. 38th St., let contract at \$22,894 to E. Morgan, Ott St., for 3-story, 40x90 ft., brick and steel store, 114-16 Broughton St.; wood floors, built-up roof; Walter P. Marshall, Archt., Realty Bldg. 4-5

Miss., McComb—Xavier A. Kramer let contract at \$28,500 to W. J. McGee & Son, Fondren School, Jackson, for 2-story, 50x100-ft., rein. conc. and stone trim store and office building on N. Broadway; Claude H. Lindsay, Archt., Lamar Life Bldg., Jackson.

Mo., St. Louis—G. A. Vaccarezza, 7271 Natural Bridge, erect \$15,000, 2-story store and tenement, 66A N. Sarah St.; 50x50 ft., brick, tar and gravel roof, steam heat; L. C. Scatizzi, Archt.-Bldr., 1010 Chestnut St.

Mo., St. Louis—G. H. Angermueller, 1308 Pine St., erect \$18,000, one and two-story, 50x105-ft. brick store, 2709 LaSalle St.; asphalt roof; J. A. Pahl Contracting & Building Co., 5521 S. Grand St.; E. J. Gieseler, Archt., DeMott Bldg.

Mo., St. Louis—W. H. Owen, 111 N. 7th St., erect \$22,000, one-story, 83x170 ft., brick store, 2319-23 S. Kingshighway; Barrett roof, steam heat; Cornwell Real Estate Co., Contr., 111 N. 7th St.; Nolte & Nauman, Archt., Fullerton Bldg.

Mo., Wellston, St. Louis—N. Pelligreen, reported, erect \$350,000, 4-story, 50x210-ft. fireproof store and office building, Hodiamont and Easton Aves.; Pelligreen Construction Co., Contr., 816 Pine St.

N. C., Lenoir—G. L. Bernhardt Estate erect one-story, 68x86-ft. building, S. Main St. and W. Harper Ave.; Poe-Triplett Construction Co., Contr.

N. C., Murphy—Dr. N. B. Adams completed excavation for \$28,000, 2-story, 72x80 ft., brick store and office building; wood floors, built-up roof; material purchased; H. D. Barnett, Contr.; Jas. J. Baldwin, Archt., Taylor Bldg., Asheville. 4-12

Tex., Beaumont—Enstham Plumbing Co., 356 Fannin St., erect \$37,500, one-story brick building, Washington and Orleans Sts.; J. W. Merriweather, Contr., 265 Adams St.; A. Babin, Archt., 15 Blanchett Bldg.

Tex., Beaumont—Sears, Roebuck & Co., R. E. Wood, Chicago, erect \$22,000, one-story, 100x180-ft. brick, stone and conc. store on Park St.; H. J. Davis, Contr., 2425 North St.; Steinman & Son, Archts., San Jacinto Life Bldg.

Tex., Cuero—Stowers Furniture Co., Stephen J. Barker, Mgr., erect \$20,000, 60x120-ft., one-story, hollow tile and stucco building, Church and Gonzales Sts.; F. A. Nunnally, Contr., San Antonio.

Tex., Houston—C. L. House, 3209 Milam St., erect \$40,000, 2-story, hollow tile and stucco store, Main St. and Stuart Ave.; W. R. Braffett, Contr.

Tex., San Antonio—Lentz-Linden Co., Soledad St., has permit for \$31,000, brick and conc. store, 108 Commerce St.; Heath Kinsey, Contr., 446 Menchaca St.

Tex., San Marcos—Katy Store Co. erect 40x60-ft. concrete and tile store to replace burned structure; plate glass front; Geo. L. Kennedy & Sons, Contrs.; remodel building damaged by fire for warehouse and feed house.

Tex., Seagraves—Following firms rebuilding burned structures: Cooksey Drug Co., Seagraves Hardware Co., Montgomery Drug Co., Hudson Chevrolet Co., Gaines Co., Motie Co., D. B. O'Neal, First State Bank, Sanitary Barber Shop, W. T. Morris, O. H. Hearne & Son, Jno. C. Sartin, B. L. Waters, Dr. A. L. Bradford, T. W. Sherrill, B. H. Turner.

Va., Martinsville—W. G. Hurd and associates started work on \$18,000, 2-story, 40x70 ft., brick, steel and frame store and apartment, Fayette St.

Theaters

Ala., Scottsboro—C. T. Bobo started excavation for \$35,000, 3-story, 30x168-ft., conc., steel, brick theater, Laurel St.; built-up roof, conc. foundation; E. B. Van Kelen, Inc., Archt., Comer Bldg., Birmingham; owner builds. See Want Section—Building Material and Equipment. 4-12

N. C., Asheville—L. Taylor Bledsoe erect 34x93-ft., one-story, brick, steel and conc. moving picture theater, Haygood Rd.; wood and conc. floors, comp. roof; work being done by day labor by J. T. Bledsoe & Co., Archts., 16 Government St.; Ben H. Case, Engr., 16 1/2 Wall St. 4-12

Tenn., Knoxville—Baumann & Baumann, Archts., 816 1/2 Market St., let contract to Worsham Bros., Empire Bldg., for \$30,000 to \$50,000, stucco, Italian type moving picture theater, W. Cumberland Ave., for Senator L. D. Tyson; auditorium to seat 700; E. A. Booth will operate. 2-23

Tex., Galveston—Martini Theater, A. Martini, Mgr., 2114 J St., remodel and redecorate theater; J. K. Deats & Bro., Contrs., 2213 E St.

Warehouses

D. C., Washington—Chas. H. Tompkins, 1608 K St., N. W., has permit to erect \$60,000, 5-story, brick and conc. warehouse, 803 Channing Place, N. E.

La., Shreveport—B. W. Marston, 1015 St. Vincent Ave., let contract at \$11,994 to H. & B. Construction Co., Rico-Breu Bldg., for one-story, 40x120-ft. rein. conc. and brick warehouse, 616 Edward St.; Clarence W. King, Archt., Giddens Lane Bldg. 3-29

Okla., Oklahoma City—E. L. Bozarth erect \$90,000, 2-story, brick, fireproof warehouse and office building, Walker and California Sts.; to be occupied by Southwestern General Electric Supply Co., 1 W. Grand St., and General Electric Co., Colcord Bldg.; Smiser Construction Co., Contr., 613 N. Hudson St.

Tenn., Memphis—H. L. Price, Porter Bldg., erect \$50,000, one-story, 130x300 ft., brick, conc. warehouse, Trigg Ave.; Memphis Const. Co., Contr., 160 Union St.; Joe T. Wallace, Archt., 1516 Bank of Commerce Bldg.

Tenn., Memphis—Riverside Land Co., Exchange Bldg., erect \$60,000, one-story and basement, 125x350 ft., brick, conc. and steel warehouse, Trigg Ave.; Memphis Const. Co., Contrs., 160 Union St.; Joe T. Wallace, Archt., 1516 Bank of Commerce Bldg.

Tenn., Memphis—Riverside Land Co., Exchange Bldg., erect \$60,000, one-story and basement, 125x350 ft., brick, conc. and steel warehouse, Trigg Ave.; Memphis Const. Co., Contrs., 160 Union St.; Joe T. Wallace, Archt., 1516 Bank of Commerce Bldg.

Tex., Midland—Abilene Plumbing Supply Co., Inc., C. W. Smith, Sec.-Treas., Box 901, Abilene, erect 50x100-ft. galvanized iron branch warehouse; wood or conc. floors; day labor.

W. Va., Weston—Louie Glass Co. erect conc. block warehouse; Hope Lumber Co., Contr., E. Third St. 4-12

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Southern Brick Interests Organizing.

Organization of a Texas subsidiary of the Common Brick Manufacturers' Association of America is described as a possibility in the near future, following the recent organization of the Gulf States Brick Manufacturers' Association, which has established headquarters in New Orleans, in charge of B. W. Bendell as secretary-manager. Increase in the use of brick will be promoted by the Gulf States Brick Association in the territory from the western peninsula of Florida to Eastern Texas, including territory in Louisiana, Alabama, Mississippi and Arkansas. The officers of the Gulf Association are: President, George J. Langenecker, New Orleans; vice-presidents, J. J. Schneider of Texas, Ferd V. Becker of Mississippi and G. W. Fauke of Arkansas; treasurer, M. P. Schneider, Silled, La.

Mergers in Cement Industry.

The Pennsylvania-Dixie Cement Corporation, New York city, has announced the purchase of the Pyramid Portland Cement Company, Des Moines, Iowa. The acquisition will materially extend the distribution of the products of the Penn-Dixie company and will contribute 1,250,000 barrels additional to the annual output, making a total of 12,250,000 barrels yearly. The mill of the Pyramid company is at Valley Junction, near Des Moines. A plan for consolidation of the Pennsylvania-Dixie Cement Corporation and the North American Cement Corporation in a merger as the "General Cement Corporation" has been submitted to the stockholders and, if approved, will place the new company with its 11 plants, having a combined annual capacity of 16,750,000 barrels, high among the leaders of the cement industry. Sales of both corporations during the first quarter and estimates for the remainder of the year indicate a substantial increase over the combined business of the two corporations for 1927.

Commercial Truck Company Sale.

The machinery and equipment of the Commercial Truck Company, Second street and Hunting Park avenue, Philadelphia, Pa., will be sold at auction on Wednesday and Thursday, April 25 and 26, by order of Eddy R. Whitney and Thomas M. Hyndman, receivers. Full particulars, terms, etc., in illustrated catalogues will be furnished on request. Samuel T. Freeman & Co., 1808 Chestnut street, are the auctioneers. To be sold in separate lots only are goodwill patents, patterns and about \$100,000 cost value of special parts, special jigs, dies and tools and modern machine tools of many kinds; also supplies of bar steel, copper wire, lumber, nuts, bolts, rivets, office furniture and other articles.

Porter Supply Company's Line.

The Porter Supply Company, Huntington, W. Va., now represents the Chain Belt Company of Milwaukee as distributor of its line of Rex mixers and pavers. Charles S. Porter is president of the company, having organized it a number of years ago, after 15 years of service in the construction machinery industry. The Porter company will also handle the contractors' equipment line, which includes buckets, elevators, central mixing plants and Stearns belt conveyors.

Pile Corporation Moves Headquarters.

The MacArthur Concrete Pile Corporation has moved its general offices in New York to 19 West Forty-fourth street from Beekman street. The company has been installing concrete piles throughout the United States and Canada for 18 years, and announces its readiness to handle all foundation problems presented to it. The New Orleans office is at 325 North Cortez street.

(Continued on page 90)

WANT SECTION

THE CLASSIFICATIONS IN THIS SECTION ARE:

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Machinery and Supplies

Band Mill.—W. M. Smith & Co., Birmingham, Ala.—Wants one 6 or 7 ft. band mill.

Boilers.—Gilbert D. Von Phul, St. Patrick and St. Louis Sts., New Orleans, La.—Wants Babcock & Wilcox water tube boilers, steel headers, horizontal tubes, units 200 and 400 hp.

Canvas Glove Machinery.—D. A. Burwell, Burwell Tie Co., Stovall, N. C., plans establishing canvas glove factory and wants to correspond with machinery manufacturers.

Concrete Mixer.—Huber Construction Co., Moultrie, Ga.—Wants 1-bag Jaeger concrete mixer.

Generator Set.—Georgia Car and Locomotive Co., John C. Knapp, V. Pres., Atlanta, Ga.—Wants used steam generator set, 10 or 10½ kw., 220 V., D. C. or operating magnet.

Confection Plant Machinery, etc.—Wieland Mfg. Co., R. G. Wieland, St. Cloud, Fla.—Plans manufacturing citrus confections and wants to correspond with manufacturers of following, etc.:

- (1) Candy Boxes
- (2) Candy Wrappers
- (3) Confectioners Machinery
- (4) Labels.

Greenhouses.—Frank Bennett, Bennett Lumber Co., Wadesboro, N. C.—Wants to correspond with manufacturers of greenhouses.

Grinding Machinery, etc.—W. L. Slayton and Co., W. L. Slaton, Dime Bk. Bldg., Toledo, O.—Wants machine to grind, sift or pulverize dirt; wants to correspond with manufacturers.

Hardware (Truck Body and Cab).—S. O. Roberts, Inman, S. C.—Wants to purchase truck body and cab hardware, drop forgings, facks, hinges, nickel-plated trim, etc.

Hoist.—Huber Construction Co., Moultrie, Ga.—Wants gasoline hoist.

Laboratory Equipment.—Bd. of Education, Box A, Fairfield, Ala.—Wants equipment for physics, chemical and biology laboratory.

Locomotives.—W. M. Smith & Co., Birmingham, Ala.—Wants two 40 to 50 ton rod locomotives, one for delivery in South Alabama and other for delivery in West Florida.

Locomotive.—Tennessee-Illinois Phosphate Co., George Thomson, Pres., 137 S. LaSalle St., Chicago, Ill.—Wants second-hand Adamson or Brookfield tram track, 36-in. gauge locomotive for tram track haulage with Fordson power unit.

Garage Equipment.—West Main Garage, 420 W. Main, Lexington, Ky.—Wants prices on:

- (1) Compressor—with air storage tank
- (2) Hydraulic Jack—for car lifting, to be used on one end of car at a time, not to lift entire car at one time
- (3) Tire Removing Stand—for pneumatic tires only
- (4) Washing Machines—power, 3-car capacity
- (5) Wrecking Crane—portable to be installed on truck by purchaser.

Metal Saw.—Manly Jail Works, Jail Bldg., Dalton, Ga.—Wants 24 or 26 in. motor driven friction metal saw, second-hand, good condition.

Mill and Contractors Supplies.—Geo. E. Eichenlaub, Archt., Dothan, Alabama, wants catalogs and prices on mill and contractors supplies.

Moving Picture Machine.—Variety Store, J. A. Hockaday, Mgr., Angier, N. C.—Wants to purchase moving picture machine.

Oil Drilling Equipment.—Gold Creek Oil and Gas Co. of Arkansas, Dr. D. L. Bower, 2919 State St., Little Rock—Wants prices on oil drilling equipment.

Pipe.—Texas Supply Co., M. L. Hurvitz, Mgr., Houston, Tex.—Wants second-hand 6, 8, 10, 12 in. second-hand standard line pipe.

Rails (Relaying), etc.—Texas Supply Co., M. L. Hurvitz, Mgr., Houston, Tex.—Wants relaying and scrap rails.

Rice Milling Machinery.—H. T. McGill, McGill Bros. Rice Mill, Stuttgart, Ark.—Wants literature and prices on equipment and supplies used in rice milling.

Rug Looms.—Scottsboro Manufacturing Co., Inc., Scottsboro, Ala.—Wants looms for making chenille and tufted rugs.

Rug Making Machinery.—D. A. Burwell, Burwell Tie Co., Stovall, N. C., plans establishing rug factory and wants to correspond with manufacturers of machinery.

Spring Steel Strips.—John A. Groscelese, Box 477, Marion, Va.—Wants to purchase spring steel in narrow, thin strips, about 1-16 by 5-8 in.

Textile Mill Machinery.—J. R. Gambill, Harrisonburg, Va.—Wants to correspond with manufacturers of knitting machines and machines to make woolen blankets.

Tufting Machines.—Scottsboro Manufacturing Co., Scottsboro, Ala.—Wants tufting machines.

Woodworking Equipment.—Bd. of Education, Box A, Fairfield, Ala.—Wants woodworking equipment.

Woodworking Tools.—Huttig Sash and Door Co., Park Ave., Charlotte, N. C.—Wants sash clamps, door clamps, arm sander, hollow chisel mortiser, single end tenoner.

Geo. E. Eichenlaub, Archt., Dothan, Alabama, wants following:

- (1) Rope, Blocks and Gear (Plymouth)
- (2) Gin Pole—40 ft.
- (3) Winch—hand, good for 4 tons
- (4) Concrete Mixer—one bag, loader, electric; prefers to lease.

General Business Co., Bazar Mai Sewan St., Amritsar, India.—Wants catalogs and prices on glassware, including spirit bottles, dispensing bottles, perfumery bottles, tumblers and compressed glass; and for cotton and silk piece goods; rubber, leather and canvas shoes and boots; with view to representation.

M. Kohan, Galatz, Roumania.—Wants chemicals and raw materials which are used in following industries: Soap and candle making, tanneries and leather, perfumery, paper mills, glassmaking, sugar factories, chemists and druggists supplies, raw material for metal industries, spices, oils, fats, greases, etc.; submit offers and full details.

Miscellaneous

Cafeteria Equipment, etc.—Bd. of Education, Box A, Fairfield, Ala.—Wants equipment for cafeteria, Home Economics, cooking and sewing depts.

Domestic Science Supplies.—See Cafeteria Equipment, etc.

Hemp, Hennequin, Sisal, etc.—General Industrial Corp. of Florida, 415-20 Meyer-Kiser Bk. Bldg., Miami, Fla.—Wants to correspond with importers of vegetable fibers, such as hemp, hennequin, sisal, etc., except cotton.

Ice Box (Florists).—Chas. M. Robinson, Archt., Richmond, Va., wants prices on florists ice box for Biological Dept. of College of William and Mary, Williamsburg.

Lumber.—Burlington Novelty Shop, Inc., O. G. Thompson, Pres., Burlington, N. C.—Wants prices on shop lumber, 5/4 to 8/4 stock.

Safety Razors.—E. Cundiff, Altavista, Va.—Wants to correspond with manufacturers to work out details regarding patented safety razors.

Wood Dye.—Lewis Duncan, 310 Mississippi Ave., Chattanooga, Tenn.—Wants red and yellow wood dye that will not fade.

Building Material and Equipment

Nicholas Mitchell, Archt., Southern Bldg., Tampa, Fla., wants prices on following for \$15,000 theater:

- Cast Stone
- Metal Doors
- Roofing—built-up
- Sprinklers
- Tile—gypsum, hollow.

Geo. E. Eichenlaub, Archt., Dothan, Alabama, wants prices on following for \$260,000 theater and store:

- Cast Stone
- Floors—terrazzo, tile, composition
- Limestone
- Marble
- Metal Doors
- Plaster Board
- Roofing—built-up
- Sprinklers
- Steel Sash and Trim
- Tile—gypsum
- Ventilators
- Wire Glass

Also sub-contracts bids on carpenter labor, masonry brick, stone setting, tile setting, erecting seats, building organ, painting, furnish and place drapes, stage sets, stage illumination, pipe, conduit, plumbing fixtures.

V. L. Nicholson Co., Contrs., 102 W. Clinch Ave., Knoxville, Tenn., wants prices on following for \$46,000 repairs to courthouse:

- Flooring—terrazzo, tile
- Metal Doors
- Roofing—slate.

Wm. I. Deming, Archt., 808 Seventeenth St., Washington, D. C., wants prices on following for \$100,000 courthouse unit, Fairfax, Va.:

- Flooring—tile, composition
- Marble
- Roofing—slate
- Steel Sash and Trim
- Tile—gypsum, hollow
- Vaults
- Wire Glass.

Jos. O. Blair, Archt., 330 St. Paul St., Baltimore, Md., wants prices on following for \$75,000 church group:

Electric Refrigerators.

C. B. Hamilton & Co., Box 102, Oklahoma City, Okla., wants prices on following for \$42,000 apartment:

- Cast Stone
- Electric Refrigerators
- Elevators
- Floors—hardwood, terrazzo, tile
- Limestone
- Mall Chutes
- Marble
- Roofing—built-up, tile
- Rubber Tile
- Sprinklers
- Steel Sash and Trim
- Terra Cotta
- Tile—gypsum, hollow, interior
- Ventilators
- Wire Glass.

Hawk & Parr, Archts., Cotton Exch. Bldg., Oklahoma City, Okla., want prices on following for \$30,000 Sunday school, Elk City, Okla.:

- Cast Stone
- Marble
- Roofing—asbestos shingle.

LaGrange Lumber and Supply Co., La Grange, Ga., wants prices on following for \$16,000 stores:

Roofing—built-up tar and gravel.

J. D. Murphy, Contr., Halifax, Va., wants prices on following for frame church, Danville, Va.:

- Metal Ceilings
- Rolling Partitions
- Steel Sash and Trim.
- Julian S. Starr, Archt., Rock Hill, S. C., wants prices on following for \$10,000 garage, Chester, S. C.:
- Bowstring Steel Truss
- Plate Glass.

Julian S. Starr, Archt., Rock Hill, S. C., wants prices on following for \$12,000 dwelling, Fort Mill, S. C.:

- Flooring—tile, hardwood
- Plaster Board
- Steel Beam and Angles.

Julian S. Starr, Archt., Rock Hill, S. C., wants prices on following for \$30,000 Sunday school, Kershaw, S. C.:

- Flooring—B. & B. pine
- Metal Ceilings
- Plaster Board
- Steel Beams, Columns and Angles.

Rex. Williams, Holland, Tex., wants prices on following for frame or brick veneer church:

Flooring—hardwood
Metal Ceilings
Metal Doors
Plaster Board
Rolling Partitions
Roofing—asbestos shingle, asphalt shingle
Tile—gypsum
Terra Cotta Trim
Ventilators.

C. T. Bobo, Scottsboro, Ala., wants prices on following for \$25,000 theater:

Cast stone
Floors—hardwood, linoleum, tile
Marble
Metal Ceilings
Roofing—built-up
Steel sash and trim
Tile—interior
Terra cotta trim
Wire glass
Brass and bronze work.

F. A. Harris, Archt., Lafayette Arcade, Tampa, Fla., wants prices on following for \$160,000 church and Sunday school:

Cast stone
Dumb waiters
Elevators
Flooring—hardwood, tile, composition.
Plaster board
Rolling partitions
Roofing—built-up
Tile—gypsum, hollow
Vaults
Ventilators
Wire glass

Wm. D. Van Sicken, Archt., Brownsville, Tex., wants prices on following for \$25,000 dwelling:

Flooring—hardwood, linoleum, tile
Incinerator
Roofing—tile.

Bids Asked

Air Compressor.—See Water Works Equipment.

Airport Lighting.—City Comm., T. C. Imeson, Chmn., Jacksonville, Fla.—Bids Apr. 23 for cable, switches, aviation field boundary markers; also for furnishing labor to install lighting system.

Boiler Work.—Q. M. Corp. Army and Navy General Hospital, Hot Springs, Ark.—Bids Apr. 24 for dismantling two 132 h. p. heating boilers and moving and erecting them in new power plant, including piping, brick work and breechings.

Bridge.—Gate City, Va. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Baton Rouge, La. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Freeport, Tex. See Construction News—Bridges, Culverts, Viaducts.

Bridges.—LaGrange, Ga.—Bids for 2 bridges. See Construction News—Roads, Streets, Paving.

Bridges.—Natchitoches, La.—Bids for 3 bridges. See Construction News—Bridges, Culverts, Viaducts.

Bridges, etc.—State of South Carolina—Bids for 6 bridges, culvert, underpass. See Construction News—Roads, Streets, Paving.

Bridges.—State of Arkansas—Bids for 7 bridges. See Construction News—Bridges, Culverts, Viaducts.

Cement.—State Hospital Removal, Improvements and Land Sale Comm., Jackson, Miss.—Bids April 28 for super cement for construction of tunnels, drains, etc., Insane Hospital, Howell, Miss.; N. W. Overstreet, Archt., Miss. Fire Ins. Co. Bldg., Jackson.

Celluloid, Oil, etc.—Depot Q. M., Marine Corps, Philadelphia, Pa.—Bids May 2 for 200 sheets celluloid for auto curtains, 10 gal. leather stain, 200 chamolais skins and 200 gal. spring oil.

Corrugated Metal Culvert Pipe.—Mercer County Court, L. G. Bowling, Clk., Princeton, W. Va.—Bids Apr. 28 for 300 ft. 12-in., 800 ft. 15-in., 300 ft. 18-in. corrugated metal culvert pipe.

Crawler Type Tractor.—W. R. Brewington, Hill County Auditor, Hillsboro, Tex.—Bids Apr. 30 for 3½-ton, 20-h. p. crawler type tractor.

Dredging.—Town Council of Palm Beach, Fla., L. Trevett Lockwood, Town Mgr.—Bids May 1 for 1,200,000 cu. yds. hydraulic dredging; Butler, Barnett & Taylor, Engrs., West Palm Beach.

Dredging.—Louisiana Highway Comm., Baton Rouge, La.—Bids May 10 for State Project 156-A, Unit No. 1, Jefferson Parish, Hammond-New Orleans Highway, for constructing embankment with clam shell dredge or hydraulic dredge, place 525,000 cu. yds. embankment; State Project 156-B, Unit No. 2, St. Charles Parish, Hammond-New Orleans Highway, fill recently dug flotation canal, 1,700,000 cu. yds. of pumped in mate-

rial required; Nicholas W. Bowden, State Highway Engr.

Electric Plant Equipment.—Town of Columbia, N. C.—Bids May 7 for electric light equipment including 120 h. p. unit a. c. and alternator and 120 h. p. generator set and 2 generators for 25 h. p. engine now in use; switchboard equipment and power house wiring.

Electrical Supplies.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids Apr. 27 for electrical supplies, delivery to Quantico, Va.

Galvanized Iron.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids Apr. 23 for 650 sheets, galv. iron, delivery to Quantico, Va.

Hardware.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids May 18 for furnishing hardware, for delivery to Philadelphia, Pa.

Heating and Plumbing.—Bd. of Education, R. R. Ritchie, Asst. Supt., Atlanta, Ga.—Bids April 27 for heating and plumbing for William A. Bass, Joe Brown and Daniel C. O'Keefe Junior High Schools; separate bids for each building; plans from Builders' Exchange, Bd. of Education, G. Lloyd Preacher, Archt., Wynne-Claughton Bldg.

Ice Cans.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids Apr. 25 for 50 ice cans for refrigerating plant, deliver Quantico, Va.

Iron and Wire.—Depot Q. M., Marine Corp., Philadelphia, Pa.—Bids May 17 for 10,000 lbs. strap iron for balling purposes and 4000 lbs. galv. wire.

Laboratory Supplies.—Dept. of Education, Office of Bd. of School Commrs., Madison and Lafayette Aves., Baltimore, Md.—Bids Apr. 25 for laboratory supplies.

Manilla Yarn.—U. S. Engr's Office, Galveston, Tex.—Bids Apr. 23 for manilla yarn for period of 2 months.

Medium Street Oil.—J. R. Beck, Mayor, Owensboro, Ky. Bids Apr. 23 for 140,000 gal. medium street oil; C. A. Brown, City Engr.

Miscellaneous Supplies.—A. L. Flint, Gen. Pur. Officer, Panama Canal, Washington, D. C.—Bids Apr. 24 for following: Sch. 1871: Steel bars and bolts, bronze bars, washers and flats, track bonds, slinks, copper tubing, drill rods, staybolt iron, range boilers, pipe vices, granulated cork, plaster of paris, etc.

Miscellaneous Supplies.—Pur. Officer, Panama Canal, Washington, D. C.—Bids May 2, Sch. 1872, for following:
40,000 lbs. sheet iron or steel, 17,000 lbs. sheet copper, 2800 lbs. special bronze, 6500 lbs. rolled steel; 8000 lbs. soft steel wire, 540,000 ft. manilla rope, 30,000 lbs. calcium carbide, etc.

Miscellaneous Supplies.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids May 2 to furnish miscellaneous supplies. Sch. 587.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, Gen. Pur. Officer, Washington, D. C.—Bids Apr. 27 for:

Electric refrigerators, metal roofing, platform scales, trench pipes, chain blocks, refractors, creosoted yellow pine, etc.

Office Supplies.—Depot Q. M., Marine Corps, Philadelphia, Pa.—Bids May 8 for 4000 lbs. binderboard for spotters, 50 dictionaries, 18 numbering machines, etc.

Painting.—Treasury Dept., Office of Supervising Archt., Washington, D. C.—Bids May 8 for furnishing labor and materials for exterior painting, U. S. Marine Hospital, Key West, Fla.

Paving.—Jacksonville, Fla. See Construction News—Roads, Streets, Paving.

Pipe (Concrete).—See Sewers.

Pipe (Vitrified Tile).—See Sewers.

Power Plant Equipment.—City of Thomasville, Ga.—Bids May 7 for 2000 kw. steam turbine generators and accessories; 4500 sq. ft. condensers with auxiliaries.

Pump.—Board of Awards, Baltimore, Md.—Bids Apr. 25 for furnishing and installing turbo-driven centrifugal pump at Eastern Ave. and President St.

Pumps (Centrifugal).—See Water Works Equipment.

Reinforcing Steel.—See Sewers.

Road.—Frankfort, Ky. See Construction News—Roads, Streets, Paving.

Road.—Princeton, W. Va. See Construction News—Roads, Streets, Paving.

Road.—Jackson, Miss. See Construction News—Roads, Streets, Paving.

Road.—Tiptonville, Tenn. See Construction News—Roads, Streets, Paving.

Road.—Abbeville, La. See Construction News—Roads, Streets, Paving.

Road.—Houston, Tex. See Construction News—Roads, Streets, Paving.

Roads.—State of Texas. Bids for 4 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Virginia. Bids for 6 roads. See Construction News—Roads, Streets, Paving.

Road Protection.—Bay St. Louis, Miss. See Construction News—Roads, Streets, Paving.

Roads.—State of Texas—Bids for 3 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of North Carolina—Bids for 10 roads. See Construction News—Roads, Streets, Paving.

Roads.—Conroe, Tex.—Bids for 2 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of South Carolina—Bids for 7 roads. See Construction News—Roads, Streets, Paving.

Roads.—State of Maryland—Bids for 5 roads. See Construction News—Roads, Streets, Paving.

Screens.—Treasury Dept., Office of Supervising Archt., Washington, D. C.—Bids May 9 for furnishing and installing insect screens, United States Postoffice, Lancaster, S. C.

Sewage Pumping Equipment.—Comms. Dist. of Columbia, Washington—Bids Apr. 25 for sewage pumping equipment, including 3 vertical sewage pumps, motors, automatic control and starting equipment with shafting couplings and bearings.

Sewers.—Bd. of Public Service, St. Louis, Mo.—Bids May 1 for sewers Dist. No. 3, 2, 1 and 7; W. W. Horner, Engr.

Sewers and Water Lines.—Constructing Quartermaster, Ft. Humphreys, Va.—Bids Apr. 27 for sewer and water lines.

Sewers.—Freeport, Tex.—Bids Apr. 24 for sanitary sewer system, including vit. tile and conc. sewer pipe, manholes, cover, etc.

Sewers.—Bd. of Commrs., Huntington, W. Va.—Bids Apr. 30 for lateral sewers in Sycamore St. from Norway Ave.; A. B. Maupin, City Engr.

Standpipe.—Washington Suburban Sanitary Comm., Columbia and Ralston Aves., Hyattsville, Md.—Bids April 27 for furnishing material and erecting steel standpipe 42 ft. in diam. 100 ft. high; Robt. B. Morse, Ch. Engr. Dist.

Steel.—Supt. Chillicothe Indian School, Chillicothe, Okla.—Bids Apr. 25 for struct. steel.

Street.—Waynesboro, Ga. See Construction News—Roads, Streets, Paving.

Street.—Little Rock, Ark. See Construction News—Roads, Streets, Paving.

Street.—Fort Lauderdale, Fla. See Construction News—Roads, Streets, Paving.

Street.—Jefferson City, Mo. See Construction News—Roads, Streets, Paving.

Street.—Water Valley, Miss. See Construction News—Roads, Streets, Paving.

Tape.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids May 23 for 350,000 yds. white cotton tape; delivery to Philadelphia, Pa.

Tires and Tubes.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids Apr. 30 tires and tubes, delivery to Philadelphia, Pa.

Water Supply.—Water Works Comm., Phenix City, Ala.—Bids May 3 for furnishing materials, equipment and constructing water works, consisting of river intake, pumping station, force main, settling basin, purification plant, filtered water reservoir, and pipe line connections to present distribution system; Warren E. Darrow, Engrs., Columbus, Ga.

Water Piping, etc.—Board of Public Service, St. Louis, Mo.—Bids Apr. 24 for materials, labor and equipment for installing complete piping and auxiliaries at Missouri River plant, Howard Bend.

Water Works Piping, etc.—Board of Public Service, St. Louis, Mo.—Bids Apr. 24 for complete piping and auxiliaries at Missouri River plant of water works, Howard Bend.

Water Works Equipment.—City of Man-nington, W. Va., R. E. Mockler, Clk.—Bids Apr. 24 for centrifugal pumps, air compressors and electric motors for water works.

Water.—See Sewer and Water Lines.

Centrifugal Pumps.—The April edition of Data 70, a brochure on centrifugal pumps has been issued by the Aldrich Pump Company, Allentown, Pa., and can be obtained from the company on application. In this are described the types of devices manufactured by the concern, which are said to be built to meet any conditions for which centrifugal pumps of the better class are adapted. Standard specifications for single-stage double suction centrifugal pumps are given and the pamphlet is filled with descriptions, illustrations and tables of informative value.

(Continued from page 87)

Navy Department Auction Sale.

In an auction sale announced by the United States Navy Department to be held at the Navy Yard, Puget Sound, Bremerton, Wash., on May 15 next, at 10 A. M., are enumerated such articles as the U. S. S. Wenonah, a steel yacht, 163 feet long, with engine and boilers; the steel tug Iroquois, 152 feet; furniture and household equipment, anchors, blocks, chain and tackles, canvas and engine-room equipment. Among other items are: Boats, from 10 to 40 feet, including motorboats with and without motors installed; over 1000 items of hardware, hand and machine tools and pipe fittings (new material), 3,000,000 pounds of scrap metal, brass, copper, lead, iron, steel, etc.; also, boiler and condenser tubes. Many other items are found in the list. Catalogues of sale may be obtained from the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., or B. Levy, auctioneer, Denny Building, Seattle, Wash., or Supply Officer, Navy Yard, Puget Sound, Washington.

"Banking On the South."

Under the title, "Banking On the South," the Mortgage Guaranty Company of America, Atlanta, Ga., has issued a valuable brochure, printed and bound in most attractive fashion. "Mention of the South no longer suggests a picture of white-haired slaves and endless acres of cotton; its magnificent resources, long left to lie half-hidden, have burst finally into the full flower of development," says an opening paragraph. First quoting figures from the MANUFACTURERS RECORD to show the development of the South in 26 years, the brochure speaks of the value of mortgage financing, explains the method of operation and the character of good properties and lays its business methods before the reader. The home office of the company is at Carnegie Way and Ellis street, Atlanta.

National Manufacturers' Bulletin.

Much material of interest is found in the Pocket Bulletin of the National Association of Manufacturers for March, which hereafter is to resume the name of "American Industries," under which it had been published for nearly 30 years. The March issue opens with a letter to President Coolidge from President John E. Edgerton of the National Association, urging reduction of the corporation income tax; this is followed by an article by James A. Emery, general counsel of the association, describing the Anti-Injunction bills before Congress as "reversion toward barbarism." "The Value of the Public Library to Manufacturers" is covered by A. S. Perkins, librarian of the association, and several other articles of importance fill out the issue.

Matt Brodie.

Announcement is made by the Sullivan Machinery Company, Chicago, of the death of Matt Brodie, manager of the company for Asia, with headquarters at Tokyo, Japan. Mr. Brodie became connected with the Sullivan Machinery Company immediately after his graduation from the Massachusetts Institute of Technology in 1902, and in time became manager of the Salt Lake City branch. Later, he was assigned to foreign duty and spent eight years in Australia, and in 1916 was sent to Russia in charge of the company's interests. After a visit to America, he was sent to Japan and had charge of the company's business in that country, China and India for the past ten years. The company pays tribute to his integrity and engineering ability and the charm of his personality.

York Ice Machinery Installations.

The York Ice Machinery Corporation, York, Pa., reports 149 sales and installations of its products throughout the country in the period from February 29 to March 31, including 42 at various places in the South, as follows: Phoenix City, Ala.; Fort Smith and West Memphis, Ark.; Atlanta (2), Augusta, Lyons, Tifton, Ga.; Louisville (2), Ky.; Bogalusa and Lake Charles, La.; Stockton, Md.; Newton, Miss.; St. Charles, St. Joseph, St. Louis (4), Mo.; Elkin, Goldsboro, Rougemont, N. C.; Guthrie, Guyton, Wewoka, Okla.; Anderson, S. C.; Covington, Dayton, Nashville, Tenn.; Alvord, Corpus Christi, El Paso, Mercedes, Odessa, Sweetwater, Wichita Falls, Texas; Danville, Va.; Charleston, Clarksburg, Morgantown, Whitesville, W. Va.

General Gas and Electric Corporation.

The 1927 annual report of the General Gas and Electric Corporation and subsidiary companies shows current assets totalling \$9,184,782, the cash and call loans aggregating \$4,571,985. Consolidated net income account of the system shows operating revenues and other income of \$25,347,713, a new high record, and consolidated total income of \$9,983,227, an increase of \$824,544 over 1926. Net income amounted to \$3,111,994, equal to \$5.90 per share of class A common stock, and the surplus totaled \$7,912,145, as compared with adjusted surplus of \$6,433,960 a year ago. The system in 1927 served 224,208 customers; electric sales were 731,347,110 K.W.H., and gas sales totaled 1,028,110,000 cubic feet.

Acquires Large Concern.

The Buffalo Foundry and Machine Company, Buffalo, N. Y., has acquired the assets, physical properties and patents of the Chemical and Vacuum Machinery Company. The Buflovak and Buflokast lines of dryers and evaporators will be supplemented with several new types, including Spray Film Feed, a new design of vacuum rotary dryer, and other modifications of present types. Charles O. Lavett, former general manager, and H. E. Neubauer, former chief engineer of the Chemical and Vacuum Machinery Company, are now associated with the Buffalo Foundry and Machine Company.

Trade Literature

Airport Lighting.—A comprehensive, 16-page catalogue, with 41 illustrations and describing its complete line of airport lighting equipment, has been issued by the B. B. T. Corporation of America, with headquarters in the Atlantic Building, Philadelphia. The B. B. T. Air Mail Type Landing Floodlight, producer of "daylight at night" illumination, is the company's featured product, while flashing beacons, rotating beacons, revolving beacons and other devices also are described.

Sugar Ash Bridge.—The Leeds & Northrup Company, Philadelphia, Pa., manufacturer of electrical measuring instruments, has issued bulletin 497 to describe the sugar ash bridge it manufactures. The sugar ash bridge is designed to determine the ash content in either cane or beet sugar products and will measure specific conductance of products ranging in ash content from .01 per cent to more than 3 per cent. Means are provided to compensate for variations in cell constant between .14 and .16 and for temperature between 10 and 35 degrees Centigrade.

Portable Compressors.—The Ingersoll-Rand

Company, New York, has completed the sixth edition of its 140-page, two-color book entitled, "One Hundred and One Ways to Save Money with Portable Compressors," in which is embodied comparative cost data on its portable air compressors and air-operated tools—rock drills, paving breakers, clay diggers, backfill tampers, grinders, hoists, riveting hammers, chippers, metal drills, etc. The information has been put together in handy-reference, cross-index form and in most cases figures are presented on a man-hour basis so that they can be readily applied to local conditions. It is said that 125,000 of the books are already in the hands of readers; free copies may be obtained by writing to the company, 11 Broadway, New York City, or to any of its local branches in any part of the world.

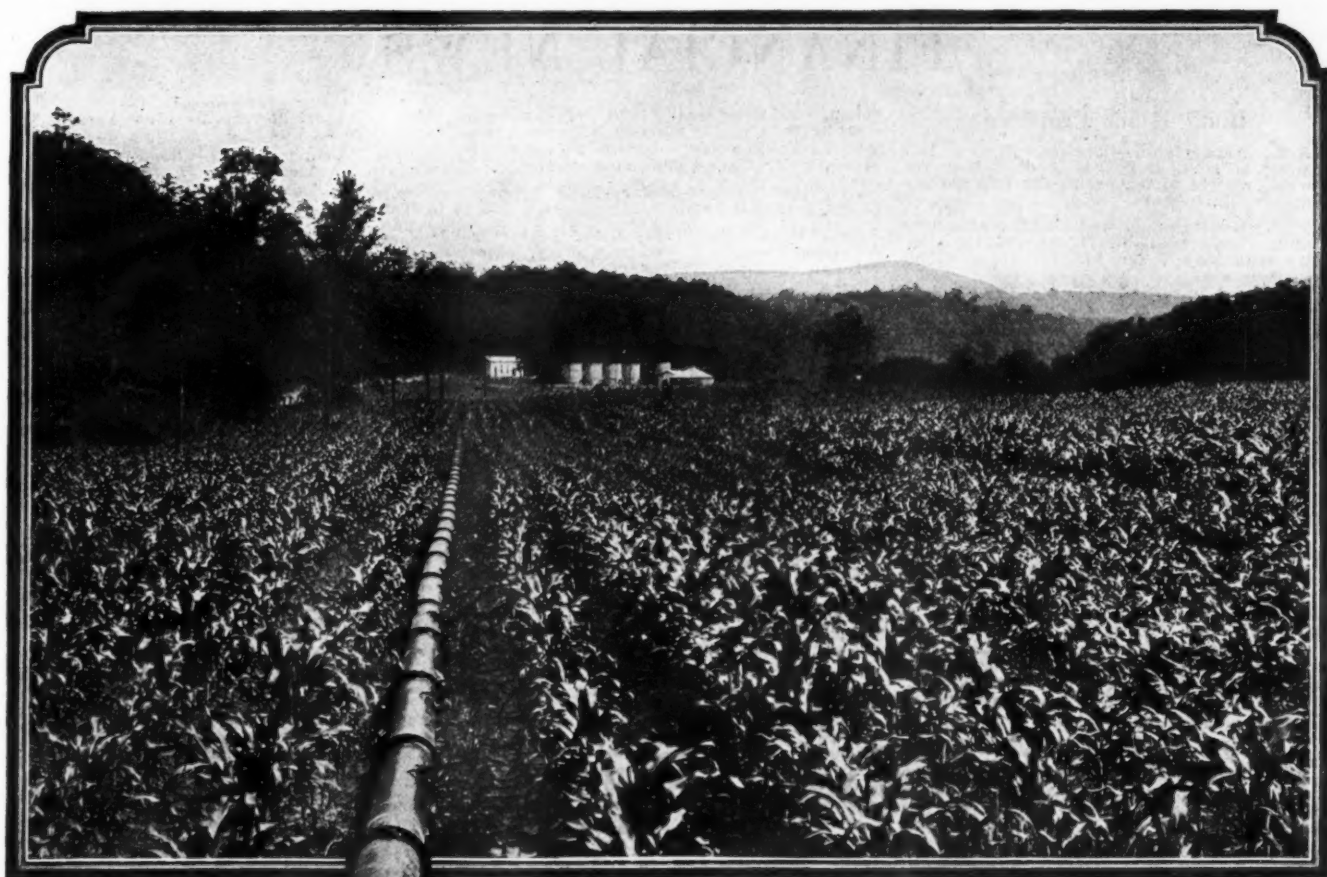
Waste Material Blue Book.

Of practical value to others as well as to the personnel of its own industry is the Fifteenth Anniversary Blue Book of the National Association of Waste Material Dealers, Inc., Times Building, New York. Between the tasteful covers are over 300 pages of information and helpful advertising, the book being divided into such sections as Metal, Scrap Iron, Scrap Rubber, Cotton and Silk Waste, Paper Mills Supplies, and so on. In each of these, details are discussed and valuable statistics are given. The officers of the Association are: President, G. H. Rady; vice-presidents, Henry Lissberger, James Rosenberg and Henry Levitt; secretary-treasurer, Charles M. Haskins.

Cement Trade Ethics.—Publication by the International Cement Corporation and its subsidiary companies of a 38-page booklet, containing a complete statement of the trade ethics and marketing policies under which Lone Star Cement is sold, is designed to mark the beginning of an era of better understanding between manufacturer, dealer and the Portland cement trade. The booklet is divided into three parts, the first being a statement of trade ethics in marketing, the second explaining the factors and conditions which control the price policy of the Corporation, and the third giving "twenty-one reasons for our sales policy."

Automotive Equipment for Railroads.—An attractive brochure presented by the International Harvester Company of America, Inc., Chicago, describes in detail International Harvester motor trucks and McCormick-Deering industrial tractors for railroads, showing, among other things: Speeding up freight movement in crowded terminal areas, the place of the industrial tractor in railroad shop and stores service, motor trucks and industrial tractors in the co-ordination of rail and highway transportation, and railroads using International Harvester equipment. Products of the company on this line are shown in word and illustrations.

Marion, N. C.—Fifty-seven Facts is the title of a pamphlet issued by the Marion N. C., Chamber of Commerce about "The Lake City of the Mountains," and McDowell county. The pamphlet is attractively illustrated. In it is told that Marion has a population of 8000 and the county 20,000; that the county has 1526 farms and 1090 miles of maintained roads and that the resources of the two city banks are \$2,000,000. Other facts of value are disclosed and the pamphlet is designed to appeal to persons in other sections.



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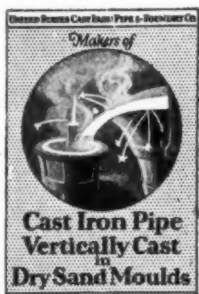
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FINANCIAL NEWS

Bond Issues Proposed

Ark., Arkadelphia—Comms. Paving Improvement Dist. 4, Leslie Goodloe, Sec., reported, receive bids Apr. 20 for \$202,000 5% bonds.

Fla., Bradenton—Road, Bridge—Manatee County Comms., Robt. H. Roesch, Clk., receive bids May 7 for \$75,000 5¼% \$1000 denom. bonds.

Fla., Bunnell—Road—Flagler County Comms., reported, receive bids Apr. 23 for \$150,000 6% bonds.

Fla., Chipley—School—City, reported, votes May 8 on \$75,000 bonds.

Fla., Fort Myers—Bridge—Lee County Comms., reported, receive bids Apr. 25 for \$100,000 bonds.

Fla., Leesburg—Leesburg School Dist. considering \$52,000 bond issue.

Fla., Orlando—Road—Orange County Comms., reported, plan \$1,340,000 bond issue.

Ga., Atlanta—Elizabeth School Dist., reported, voted \$25,000 bonds.

Ky., Berea—Berea School Dist., reported, votes May 5 on \$20,000 bonds.

Ky., Frankfort—Debt—City, reported, plans \$120,000 bonds.

Ky., Hickman—Road—Fulton County, reported, plans receiving bids soon for \$85,000 bonds.

Ky., Richmond—Sewage Disposal Plant—City Clk., reported, receives bids May 3 for \$60,000, not to exceed 4½% bonds. Lately noted bids Apr. 5. 3-29

La., Baton Rouge—Airport—East Baton Rouge Parish, reported, plans \$125,000 bond election.

La., Baton Rouge—Sewer—City, reported, voted \$180,000 bonds. 3-8

La., Independence—Independence School Dist., Tangipahoa Parish, reported, votes May 15 on \$150,000 bonds.

La., Minden—E. S. Richardson, Supt. School Bd., reported, receives bids May 8 for \$70,000 \$1000 denom., not to exceed 6% Springhill School Dist. 8 bonds. 3-15

La., Natchitoches—Natchitoches Parish School Bd., A. E. Lee, Sec., receives bids May 8 for \$30,000 5% School Dist. 4 bonds.

La., Owensboro—School Bd., reported, considering \$75,000 bond issue; J. L. Foust, Supt.

La., Palmetto—Water—Village, G. A. McDaniel, Mayor, reported, votes May 15 on \$13,500 6% bonds.

La., Rayville—Town, reported, voted \$60,000 bonds for town's share of paving, sewer and water mains extension. 4-3

Md., Rockville—Montgomery County Comms., reported, plan selling \$450,000 bonds: \$250,000, 4½% \$1000 denom., courthouse; \$50,000, \$1000 denom. jail; \$150,000, 4½% \$1000 denom. school gymnasium.

Miss., Bay St. Louis—Road Protection—Hancock County Bd. of Suprs., A. G. Favre, Clk., receives bids May 7 for \$325,000 5¼, 5½, 5¾% bonds.

Miss., Carthage—School—City, reported, votes Apr. 27 on \$25,000 bonds.

Miss., Escatawpa—Escatawpa School Dist., Jackson County, reported, votes soon on \$10,000 bonds.

Miss., Georgetown—Georgetown Consolidated School Dist. voted \$30,000 bonds. 3-29

Miss., Jackson—School—City may vote Apr. 26 on \$60,000 bonds.

Miss., Long Beach—School—Jas. E. McCormack, Town Clk., reported, receives bids Apr. 23 for \$30,000 bonds. 4-12

Miss., Orange Grove—Orange Grove School Dist., reported, plans \$40,000 bond election.

Miss., Tupelo—Courthouse, Jail—Lee County Bd. of Suprs., Byron Long, Clk., receives bids May 7 for \$55,000 6% \$1000 denom. bonds recently voted. 3-15

Miss., Vicksburg—Improvement—S. J. Patterson, City Clk., receives bids about May 19 for \$350,000 bonds. 4-12

Miss., Waynesboro—City voted \$40,000 Waynesboro School Dist. bonds. 3-29

Miss., Wiggins—Water—City, Ellis Caraway, Clk., voted \$30,000 bonds; receives bids May 1 for 5½% \$500 denom. bonds.

Mo., Independence—Bd. of Dir. School Dist. 18, St. Louis County, reported, receives bids Apr. 25 for \$26,000 \$1000 denom. bonds.

Mo., Moberly—City, reported, votes May 1 on \$195,000 bonds: \$150,000, city hall; \$6000, trunk sewer; \$7000, purchase and erect traffic signals; \$10,000, improve Tannehill Park; \$10,000, improve Forest Park; \$7000, white way; \$5000, storm sewer. 3-29

Mo., New London—Water—Town, reported, defeated \$85,000 bonds. 3-15

Mo., Shelbyville—Road—Clay, Taylor and Jefferson Townships, Shelby County, reported, plan voting on \$150,000 bonds.

Mo., Steelville—Water—City, reported, votes Apr. 24 on \$75,000 bonds. 3-8

N. C., Asheville—Valley Springs School Dist., reported, voted \$100,000 bonds; plans selling bonds. 3-8

N. C., Asheville—Refinancing—Buncombe County, reported, plans selling \$3,600,000 4½% bonds in two separate series, probably Sept. and Dec.

N. C., Graham—Read, Bridge—Alamance County, B. M. Rogers, Clk., receives bids April 27 for \$100,000, \$1000 denom. not to exceed 5% bonds.

N. C., Kinston—School—Lenoir County Comms., C. W. Pridgen, Clk., reported, receive bids Apr. 23 for \$50,000, not to exceed 5% bonds.

N. C., Marshall—Road—Madison County Comms., J. Will Roberts, Clk., reported, receive bids May 7 for \$15,000 \$1000 denom. not to exceed 6% Township 13 bonds.

N. C., Pantego—Refunding Drainage—George E. Ricks, Chmn., Bd. Drainage Comn., reported, receives bids Apr. 21 for \$45,000 6% Beaufort County Drainage Dist. 11 coupon bonds.

N. C., Roxboro—Courthouse, Jail—Person County, reported, plans voting June 2 on bonds. 1-26

N. C., Sophia—Town, reported, votes May 5 on \$10,000 water, \$4000 jail bonds.

N. C., Wilson—Gas Plant—Theo. A. Hinant, Town Clk., receives bids April 26 for \$60,000, \$1000 denom. not to exceed 6% bonds.

N. C., Winston-Salem—Street—Bd. of Aldermen, reported, authorized \$100,000 bond issue.

Okla., Asher—Water—City, reported, voted \$24,000 bonds. 4-12

Okla., Comanche—School—City, reported, voted \$25,200 bonds.

Okla., Enid—Improvement—D. D. Stull, Mayor, considering \$478,561 bond issue: \$70,550, sewerage and sewerage disposal; \$53,000, fire stations and trucks; \$161,400, storm sewers, bridges, etc.; \$123,610, water main extensions; F. C. Magruder, City Engr.

Okla., Fairview—Courthouse—Major County, reported, votes May 1 on \$40,000 bonds.

Okla., Lawton—Sewage Disposal Plant—City, reported, voted \$115,000 bonds.

S. C., Aiken—Improvement—City, Frank P. Henderson, Mayor, reported, considering \$325,000 bond election.

S. C., Aiken—Aiken County, reported, receives bids Apr. 25 for \$1,150,000 bonds.

S. C., Kershaw—Highway—Kershaw County Bd. of Dir., Laurens S. Mills, Clk., reported, receives bids Apr. 24 for \$100,000 5% \$1000 denom. bonds.

S. C., Spartanburg—Road—Spartanburg County Highway Comn. may sell \$150,000 bonds.

Tenn., Centerville—Water, Sewer—City, reported, votes Apr. 26 on \$75,000 bonds.

Tenn., Knoxville—Street—City, Mgr. Roehl, reported, plans \$500,000 bonds.

Tex., Beaumont—Beaumont Ind. School Dist., reported, voted \$1,500,000 bonds. 3-15

Tex., Beaumont—School—Paul H. Millard, City Mgr., receives bids Apr. 24 for \$1,500,000 4½% bonds.

Tex., Brownsville—Park—A. E. Mundy, City Sec., receives bids Apr. 20 for \$100,000 5% \$1000 denom. bonds.

Tex., Center—Road—Shelby County, F. C. Powell, Judge, defeated \$175,000 5½% bond issue. 3-22

Tex., Coleman—School—City, reported, votes Apr. 28 on \$38,000 bonds. Lately noted election Apr. 10. 3-22

Tex., Cuero—School—City, reported, voted \$125,000 bonds. 3-29

Tex., Dayton—W. S. Neal, Mayor, reported, plans election in 30 days, on water, sewer and paving bonds.

Tex., Dickinson—School—O. E. Kennedy, County Supt. of Education; reported, plans \$60,000 bond election.

Tex., Freeport—Sewer—R. D. Collins,

Mayor, reported, receives bids Apr. 24 for \$70,000 serial bonds.

Tex., George West—Road—Live Oak County, reported, votes May 12 on \$800,000 bonds.

Tex., Houston—City, W. A. Moore, Sec., reported, plans selling in June, \$350,000 bonds: \$300,000, paving; \$50,000, sewers.

Tex., Kaufman—Road—Kaufman County, reported, voted \$30,000 5% bonds. 3-22

Tex., Medina—Medina Ind. School Dist. voted \$20,000 5% bonds. 3-22

Tex., Mesquite—School—City may vote Apr. 21 on \$30,000 bonds.

Tex., Mesquite—Mesquite Ind. School Dist., reported, considering \$30,000 bond election.

Tex., Odem—Bd. of Trustees, Odem Independent School Dist. receives bids Apr. 24 for \$70,000, 4½, 4¾ or 5% bonds; recently voted.

Tex., Rockdale—Street, Bridge—City Council, reported, plans \$100,000 5% bond issue.

Tex., Temple—Improvement—City, G. E. Byars, Mgr., voted \$340,000 bonds: \$60,000, paving; \$25,000, funding; \$25,000 abattoir; \$115,000, school; \$100,000, city hall; \$15,000, parks. 3-15

Tex., Turkey—School—City, reported, voted \$50,000 bonds.

Tex., Victoria—Road—Victoria County, P. P. Putney, Judge, reported, plans selling \$1,092,000 bonds as funds are needed.

Va., Cape Charles—Town Council, reported, authorized \$50,000 5% funding and light bond issue.

Va., Newport News—A. M. Hamilton, City Clk., reported, receives bids Apr. 30 for \$115,000 4 and 4½% bonds: \$70,000 \$1000 denom. permanent public improvement; \$30,000 \$1000 denom. municipal equipment; \$15,000 denom. \$500, boat, harbor improvement.

W. Va., Charleston—Road—Kanawha County, Union Dist., reported, may vote May 29 on \$125,000 bonds.

W. Va., Middlebourne—Street, Sewer—City, Henry Theiss, Mayor, reported, voted \$13,000 bonds. 4-5

Bond Issues Sold

Ala., Montgomery—Highway—State Bond Comn. sold \$5,000,000 bonds jointly to Ward Sterne Co., Marx & Co., Birmingham; Caldwell & Co., Nashville, Tenn., \$93,953 premium; \$2,800,000 4%; \$2,200,000, 4¼%. 4-5

Ark., Helena—Phillips County, reported, sold \$27,000 Crestwood Paving and Sewer Dist. 1 bonds to M. W. Elkins & Co., Little Rock.

Fla., Clermont—Funding—Carl Kindred, Clk., sold \$75,000 bonds to W. L. Slayton & Co., Toledo, Ohio, 95.

Fla., Fort Lauderdale—Drainage—Ralph A. Horton, Chmn., Broward Drainage Dist., arranged with Spitzer, Rorick & Co., Toledo, Ohio, for sale of \$250,000 bonds; funds now available.

Fla., Miami—City Comn., reported, sold \$2,000,000 4¾% refunding bonds jointly to Stranahan, Harris & Oatis, Inc., Toledo, Ohio, and Brown-Crummer Co., Wichita, Kans., par and accrued interest. 4-5

Fla., Stuart—Road—Martin County Comms., reported, sold \$325,000 6% bonds to Stuart Bank & Trust Co. at par. 3-29

Ky., Grayson—Road—Carter County sold \$100,000 4½% bonds to Weil, Roth & Irving Co., Cincinnati, Ohio.

La., DeQuincy—Paving—M. M. Smith, Town Clk., sold \$60,000 5½% bonds to Interstate Bank and Trust Co., New Orleans, \$55 premium and accrued interest. 3-22

La., DeRidder—Road—Beauregard Parish Police Jury, reported, sold \$35,000 6% Road Dist. 6 bonds to Caldwell & Co., Nashville, Tenn., par, accrued interest, \$1,825 premium. 3-29

La., New Orleans—City sold \$2,017,000 4½% paving bonds to syndicate composed of Lehman Brothers, E. H. Rollins & Sons, Kissel, Klinnic & Co., Kountze Brothers, and National Park Bank, all New York; Northern Trust Co., Chicago, Ill.; Mississippi Valley Trust Co., St. Louis, at 99.64. 3-22

La., St. Francisville—Road—West Feliciana Parish Police Jury sold \$55,000 5% Road Dist. 4 bonds to Whitney-Central Bank & Trust Co., New Orleans, par, accrued interest, \$550 premium. 3-29

Miss., Kosciusko—Water—City, reported, sold bonds to Hibernia Security Co., New Orleans, La., \$425 premium.

(Continued on page 94)

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FINANCIAL NEWS

(Continued from page 92)

Miss., Lexington—Road—Holmes County Bd. of Supvrs., reported, sold \$35,000 Separate Road Dist. bonds to Merchants & Farmers Bank & Trust Co., \$610 premium. 3-15

Miss., Meridian—Improvement—City, W. H. Owen, Mayor, reported, sold \$735,000 bonds to Meridian Finance Corp., Citizens Natl. Bank and Merchants and Farmers Bank; \$400,000 4½% sewer and water, \$1000 premium; \$250,000, 5% paving, and other 5% improvement bonds, and \$25,000, 6% sidewalk bonds, \$500 premium.

Miss., Moselle—J. M. Bryant, Supt. of Education, Jones County, reported, sold \$35,000 Consolidated School Dist. bonds to Capitol National Bank & Trust Co., Jackson, Miss.

Miss., Philadelphia—Courthouse—Neshoba County Bd. of Supvrs., reported, sold \$84,000 4½% bonds to A. K. Tigrett & Co., Memphis, Tenn., \$1590 premium.

North Carolina—Ben R. Lacy, State Treas., Raleigh, reported, sold \$12,500,000 4% bonds to syndicate headed by First Nat'l Bank, New York, \$101 premium; \$10,000,000 road, \$2,500,000 school; A. W. McLean, Gov. 4-5

N. C., Asheville—Buncombe County Commrs., reported, sold \$500,000 revenue anticipation notes to W. O. Gay & Co., Boston, Mass.

N. C., Louisburg—Funding—Franklin County Commrs., reported, sold \$124,000 4½% bonds to Security Trust Co., Detroit, Mich., \$1085 premium. 3-29

S. C., Chester—Courthouse—Chester County Bd. of Dir., R. L. Thompson, Clk., sold \$100,000 4½% bonds to Braun, Bosworth & Co., Toledo, Ohio; Detroit Trust Co., Detroit, Mich., par, accrued interest, \$1547 premium.

Tenn., Bolivar—Road—Hardeman County, reported, sold \$100,000 4½% bonds to Little, Wooten & Co., Jackson.

Tenn., Bristol—Street, Improvement—City, reported, sold \$34,500 4.61% bonds to First Nat'l Bank, Bristol, \$1960 premium. 3-29

Tenn., Columbia—Refund—Little, Wooten & Co., Jackson, reported, purchased \$25,000 4¼% bonds.

Tenn., Dyersburg—Park—City, reported, sold \$65,000 4¼% bonds to Little, Wooten & Co., Jackson.

Tenn., Humboldt—Refund—Little, Wooten & Co., Jackson, reported, purchased \$102,000 4½ and 4¾% bonds.

Tenn., Morristown—Sewer—Little, Wooten & Co., Jackson, reported, purchased \$80,000 5% bonds.

Tenn., Nashville—State of Tennessee, reported, sold \$3,500,000 bridge and \$500,000 University of Tennessee Building 4 and 3¼% bonds to Eldredge & Co., New York, through Fourth and First Natl. Bank, Nashville. 4-5

Tenn., Selmer—Road—McNairy County, reported, sold \$400,000 5% bonds to Little, Wooten & Co., Jackson. 4-5

Tex., Beeville—State Bd. of Education purchased \$10,000 Bee County bonds.

Tex., Freeport—M. W. Elkins & Co., Little Rock, Ark.; R. M. Grant & Co., New York; A. C. Allen & Co., Chicago, Ill., jointly, reported, purchased \$400,000 5½% coupon harbor bonds, \$46,108 premium.

Tex., Mart—School—Dallas Trust & Sav-

ings Bank, Dallas, reported, purchased \$100,000 5% Mart Independent School Dist. bonds.

Tex., Vernon—City, reported, sold \$410,000 4¼% city hall, water and school bonds to Dallas Trust & Savings Bank, Dallas.

Tex., Waxahachie—Road—Ellis County Commrs. Coprt., reported, sold \$386,000 4¼% bonds of Dist. 1, Waxahachie Dist.; Dist. 6A, Italy Dist.; Dist. 7, Milford Dist., to A. T. Bell & Co., Toledo, Ohio, \$11,421 bonus.

Va., Culpeper—Culpeper County School Bd., Fred Hudgins, Chmn., sold \$60,000 4½% \$1000 denom. dist. bonds to Drake-Jones Co., Minneapolis, Minn., \$60,469 and accrued interest. 4-12

Va., Portsmouth—Refunding—Frank C. Hanrahan, City Mgr., reported, sold \$123,000 4½% bonds to Stein Brothers & Boyce, Baltimore, Md., at 104.42. 4-5

Va., Radford—School—City, R. W. Arthur, Mgr., reported, sold \$45,000 4½% bonds to Braun, Bosworth & Co., Toledo, Ohio, \$1269 premium. 3-29

Building and Loan Associations

Mo., Kansas City—Grande Building Co., Thirteenth St. and Grande Ave., capital \$200,000, chartered; Jules E. Kohn, O. O. Concanon, M. L. Glenn.

New Financial Corporations

Ark., Camden—Camden Bank & Trust Co., capital \$100,000, organized; H. C. Couch, 401 Hardin St., Pine Bluff.

Ark., Luxora—Bank of Luxora, capital \$50,000, organized; R. E. Lee Wilson, Pres.; J. W. Spann, V.-P.; C. B. Wood, Jr., Sec.

Ark., Gurdon—First Natl. Bank of Gurdon, capital \$25,000, organized; Rupert A. Stuart, Cashier.

Ark., Okolona—Peoples Bank, capital \$10,000, chartered; J. J. Hardin, Pres.; S. T. Covington, Cashier.

Ark., Pine Bluff—Merchants & Planters Bank & Trust Co., capital \$200,000, chartered; J. W. Jones, Pres., M. & P. Bk. Bldg.

Fla., Tampa—American State Bank, capital \$25,000, organized; E. W. Stapleton, Pres.; Gene Stapleton, Cashier.

Ky., Hazard—Perry Bank & Trust Co., State Bank Bldg., organized; L. F. Breashear, Pres.; formed by merging of Perry County State Bank and Hazard Bank & Trust Co.

Ky., Walton—Dixie State Bank, capital \$25,000, organized; J. L. Vest, Pres.

Mo., Charleston—Bank of Charleston, \$100,000 capital, chartered; Edward H. Deal, Paul B. Moore, Scott Alexander; will acquire Charleston-Mississippi County Bank.

N. C., Durham—Durham Bond and Mortgage Co., First Natl. Bank Bldg., capital \$50,000, organized; C. C. Thomas, Pres.; D. W. Newsom, V.-P.; Chas. S. Allen, Sec.

N. C., Morganton—Morganton Industrial Bank, capital \$25,000, organized; J. H. Giles, Pres.; Roy C. Huffman, Sec.-Treas.

N. C., Rutherfordton—First Industrial Bank, capital \$100,000, chartered; N. C. Harris, Fred D. Hamrick, C. B. Goodyear.

Tenn., Pikeville—Bledsoe County Bank & Trust Co., capital \$25,000, incorporated; S.

H. Blackburn, W. M. Tollett, J. W. Wilson.

Tex., Bryan—Fidelity Finance Corp., New LaSalle Hotel, capital \$50,000, chartered; W. S. Howell, Mayor Wilson Bradley, R. V. Armstrong.

Tex., Houston—Seaboard Security Co., capital \$100,000, chartered; Thomas C. and C. B. Spencer, H. A. Sauer.

Tex., Jefferson—Jefferson Bank & Trust Co., capital \$50,000, organized; Dr. J. A. R. Moseley, Pres.; J. O. Brooks, V.-P.; J. C. Adams, Cashier; acquired Rogers State Bank & Trust Co.

Tex., Laredo—Union State Bank and Trust Co., of Laredo, capital \$150,000, chartered; Ed S. Russell, Pres.; Ike Hirsch, V.-P.; P. H. Stanford, Cashier.

Poplar Bluff Loan and Building Assn., Poplar Bluff, Mo., reported, plans increasing capital, \$2,000,000 to \$3,000,000.

South End Savings and Building Assn., Louisville, Ky., reported, plans increasing capital, \$300,000 to \$500,000.

South End Savings & Building Assn., Louisville, Ky., plans increasing capital, \$300,000 to \$500,000.

Book Reviews

Bills of Lading. A Manual on the Law of Bills of Lading and Contracts of Shipment. By Ernest W. Hotchkiss, LL. B. New York: The Ronald Press Company. Cloth. Pp. 287. \$5.

Dealing with a subject of prime interest to all concerned with traffic, whether in the employ of the railroads or industrial concerns, this book presents a clear and concise explanation of the law concerning various types of bills of lading and contracts of shipment, and brings together in one handy volume references to related statutes and court decisions. The volume discusses the four functions of the bill of lading—as a receipt, contract, document of title and instrument of credit—and sets forth the various rights and obligations of the several parties to a transportation contract. Over 275 reported court decisions are cited and the latest forms of all classes of bills of lading approved by the Interstate Commerce Commission, as well as the complete texts of related statutes, are given.

Gear Problems.—A 200-page book for distribution to engineers and executives has been issued by the Foote Brothers Gear & Machine Company, 224 North Curtis street, Chicago. It is entitled, "Gear Problems," and in addition to data on speed reducers there is much engineering information in it. The book is known as AE-22, and is mailed by the company on request to those who are interested in the problems of speed reduction.

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Never in the history of the South has its material expansion been of such magnitude, so rapid and of such a diversified character as it is today. The business people of all sections are realizing that with its marvelous resources the South is destined to be one of the greatest industrial centers of the world. The trend of industry is pronouncedly toward the South, not only in textile manufacturing but in other lines.

Money is being poured into the South by the greatest capitalists and business organizations in America. Hydro-electric developments on an enormous scale are going forward all over the South, and the expansion of steam-electric stations is equally as great. Over half of the increase in installed capacity of water power plants of the country during the last two years is in the South. In the South electric power is being generated by powdered coal, lignite and oil at a cost which is bringing about a great industrial development in Louisiana, Texas and other Southwestern States.

Every business man and woman in America is vitally interested in studying this situation. The great natural asset of the nation—the South—is now being developed on a scale which will match, if not surpass, the most active development ever heretofore seen in the United States, and that means the world.

The story of the South's resources, progress and possibilities will be brought down to date in the descriptive and statistical presentation in the

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\$4,000,000 Cooper River Bridge Contracts Let.

Charleston, S. C.—The following contracts for a \$4,000,000 bridge across Cooper River at Charleston, have been awarded by the Cooper River Bridge, Inc., of which Charles R. Allen is vice-president:

Approaches to substructure—C. E. Hillyer, Jacksonville, Fla.
Main piers for substructure—The Foundation Company, New York.
Steel approaches to superstructure—Virginia Bridge and Iron Company, Roanoke.
Steel spans—The McClintic-Marshall Company, Pittsburgh, Pa.

The total length of the bridge will be about 14,000 feet, the main span to afford a horizontal clearance of 1000 feet and a vertical clearance of 150 feet over Cooper River, with two flanking spans of 450 feet, while the Town Creek span will have a horizontal clearance of 600 feet and a vertical clearance of 135 feet. Thirteen large piers will be required and 13 spans, including the ones mentioned above. A 20-foot roadway for autoists will be provided. The bridge is being financed by H. M. Byllesby & Company, Chicago, and has been designed by Waddell & Hardesty, New York.

Prosperity in the Texas Valley.

Dallas, Tex., April 14.—Prosperity in the lower Rio Grande Valley is becoming more solid as the days pass. Approximately 13,000 cars of fruits and vegetables have been shipped from this region in the past five months, and with the peak of the bean, tomato and potato crops at hand, there is every indication that the 20,000-car mark will be passed for the first time in the history of the section. This would top all former records by approximately 3000 cars.

It is estimated there are about 300,000 acres of valley lands, irrigated and unirrigated, planted to cotton this year. If present prospects are realized there should be more than 200,000 bales of cotton produced, and this also would be a record by 25,000 bales.

Besides all this, there are hunting, fishing, bathing, boating, golf and other sports available.

Citrus fruit shipments next year should amount to from 4000 to 6000 cars, and men of experience agree that the quantity of the fruit will place the industry in second place for size of cash return. The next best crop likely will be potatoes. Bean, potato and tomato prices opened very favorably. Also, at the close of February, there was \$22,463,596 on deposit in the various banks and resources of these 32 institutions totaled \$26,623,938.

American Dye Industry Has Peak Year in 1927.

Preliminary figures compiled by the United States Tariff Commission show that the domestic production of coal-tar dyes for the calendar year 1927 exceeds the production of any previous year in the history of the American dye industry. It amounted to approximately 95,000,000 pounds, an increase of 8 per cent over the production of 1926. The sales of dyes in 1927 were about 98,200,000 pounds, valued at \$38,200,000; an increase over 1926 of 13.8 per cent by quantity, and 5.2 per cent by value. Other outstanding features of American dye production for 1927 were: Continued price recessions; increase in production of vat and other fast dyes; production of many new fast and specialty dyes; reduction in the number of domestic manufacturers; decrease in dye imports; increase in the quantity and decrease in value of exports.

The production of vat dyes in 1927 set a new record with a total of over 4,500,000 pounds, as compared with 4,000,000 pounds in 1926, an increase of more than 12 per cent. Before the World War there was no production of vat dyes in the United States and our entire consumption was imported from Germany and Switzerland. These dyes are of the greatest

interest to the consumer of fabrics, as they yield shades of exceptional fastness to washing and light, and are largely used on cotton and linen goods.

A summary of the production and sales of dyes and other finished coal-tar products for 1927 is shown in the following table. The total exceeds the production of any year since 1918. In this summary photographic chemicals are not included, as complete returns have not been received.

DYES AND OTHER FINISHED COAL-TAR PRODUCTS: DOMESTIC CONSUMPTION AND SALES, 1927.

Product	Sales		Production Quantity, pounds
	Quantity, pounds	Value	
Dyes	98,200,000	\$38,200,000	95,000,000
Color lakes	11,100,000	6,350,000	11,200,000
Medicinals*	3,600,000	7,000,000	3,700,000
Flavors	1,800,000	1,300,000	1,800,000
Perfumes	2,000,000	1,000,000	2,000,000
Synthetic tanning materials and synthetic phenolic resins	16,800,000	5,800,000	17,100,000
Total	133,500,000	\$59,650,000	130,800,000

*Partly estimated; returns incomplete.

The foregoing is fresh evidence of the great distance we have traveled since 1914 in the field of coal-tar products. In that year we imported 45,950,895 pounds, while in 1927 we imported 4,182,026 pounds and exported 27,766,168 pounds.

Big Textile Plant for Brunswick, Ga.

Brunswick, Ga.—Details are being worked out for the organization of the Burcot Products Company, to establish a plant here to manufacture a substitute for burlap from low grade cotton. Interests identified with the new enterprise include C. W. Lane of this city and Atlanta; Frank W. Van Ness and Frank G. Shinn, both of New York; Paul J. Varner, Alfred W. Jones and others. The first unit of the plant will occupy six buildings of the picric acid plant built by the government and now owned by Mr. Lane, and will have an annual output of 6,000,000 yards. Machinery will soon be installed, the process for making Burcot having been perfected by Mr. Van Ness, it is said.

Contract for \$500,000 Hospital Addition.

Union Memorial Hospital, Baltimore, has awarded contract to the Benjamin F. Bennett Building Company, Baltimore, for the erection of the \$500,000 Frederick Bauernschmidt Memorial building. The building will be 42 by 175 feet, 6 stories and roof garden, with brick bearing walls, slate roof, tile deck for roof floor, cement and terrazzo interior floors and extension of steam heating system. It will contain 128 beds. Joseph Evans Sperry is the architect, Herman F. Doeleman, structural engineer, and Charles L. Reeder, mechanical engineer, all of Baltimore.

Increased Transportation Requirements.

Transportation requirements for 29 of the principal commodities in the second quarter this year, the months of April, May and June, will be approximately 9,035,963 cars, an increase of about 323,250 cars above the corresponding period in 1927 or 3.7 per cent, according to reports to the Car Service Division of the American Railway Association from the 13 Shippers' Regional Advisory Boards throughout the country.

Kentucky Asks Bids on 100 Miles of Roads.

Frankfort, Ky.—Proposals will be received until April 27 by the State Highway Commission for 11 projects embracing a total of approximately 100 miles of roads. Six projects call for a total of 67.6 miles of surfacing; four for 43.7 miles of grade and drainage construction, and one for .4 mile of grade and drainage and surfacing approaches, with a small concrete bridge.



COME . . .

Meet with Your Neighbors in this Centennial of Southern Industry!

THE South's oldest industrial city, Columbus, Georgia, invites you to participate in its century birthday party. For three days, April 25, 26 and 27, representative business men from all over the Southeast will gather here to see the most remarkable industrial pageant ever staged by a Southern city. Columbus' hundred industries will hold "open house" for their visitors. For the Columbus Centennial is truly a celebration of the industrial growth of the whole Southeast.

The trip will be a business inspiration to you—and you'll enjoy the many unique features of the entertainment program. Come—and bring the family!

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Southeast.

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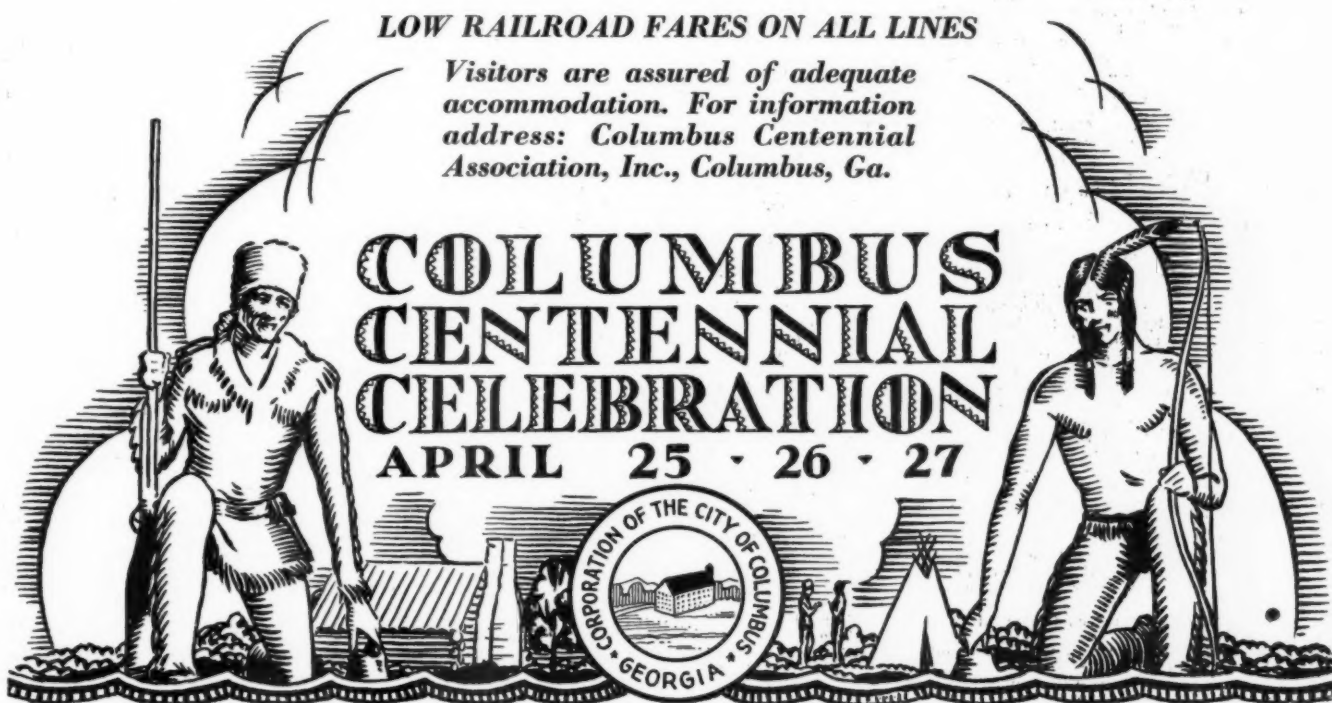
Street Festival at night.

Concerts by Five Bands.

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PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS



Bids close May 7, 1928.

Reinforced Concrete Bridge

Clearwater, Fla.

Sealed proposals will be received by the City of Clearwater, Florida, until 7.30 P. M., May 7, 1928, for constructing a reinforced concrete bridge on Betty Lane across Stevenson Creek. Approximate quantities are:

470 lin. ft. Foundation Piling.

170 cu. yds. Reinforced Concrete.

Blank forms of proposal and specifications will be furnished prospective bidders. Plans for the same are on file in the office of the City Engineer of said City, where they may be obtained by making a deposit of \$10.00, which deposit will be returned only to bona fide bidders.

Certified check of \$500.00 is required with each bid and bond for 100% of the contract price will be required of the successful bidder, such bond to be a bond with reputable and responsible surety company as surety and written by company or companies authorized to do business in the State of Florida.

The City reserves the right to reject any and all bids.

The City reserves the right to increase or decrease the amount of work included in these specifications without affecting in any way the contract prices and without affecting the specifications or contract in any other respect.

Bids on complete alternate plans will be considered.

H. S. RIDDLE,
City Manager.

Bids close April 24, 1928.

State Highways

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

SEALED PROPOSALS for building five sections of State Highway as follows:

Frederick County, Cont. F-111—One section of State Highway along the Liberty Road between Unionville and the Carroll County Line for a distance of 0.7 mile. (Concrete.)

Baltimore County, Cont. B-86—One section of State Highway from Jacksonville to the Harford County Line, and from Sunnybrook toward Warren, a distance of 4.05 miles. (Concrete.)

Anne Arundel County, Cont. AA-10—One section of State Highway from Glenburnie to Dorsey, a distance of 6.10 miles. (Concrete.)

Cecil County, Cont. Ce-66—One section of State Highway from Reeds Corner to the Grindstone, a distance of 1.47 miles. (Concrete.)

Baltimore County, Cont. B-77—One section of State Highway along the Belair Road from Overlea to Putty Hill, a distance of 1.9 miles. (Concrete Shoulders.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 24th day of April, 1928, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form, which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 9th day of April, 1928.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary.

RATE: 35 cents per line per insertion
PUBLICATION DAY: Thursday.

FORMS CLOSE: 4 P. M. Monday.

DAY LETTER: When too late to send copy by mail to reach us by 4 P. M. Monday, forward by day letter.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD: Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

Bids close May 3, 1928.

Virginia Highway Work

Richmond, Virginia.

The Department will receive bids on:

Proj.	Length	Type
F293A2B1	5.5 mi.	Rock Asphalt
S335DB	5.3 Mi.	Concrete
S366A	0.33 Mi.	Soil
S366B	0.26 Mi.	Soil
S366FM	1.0 Mi.	Soil
F520A	7.8 Mi.	Rock Asphalt

Details obtainable on request.

Bids close July 31, 1928.

Proposals for Bridge Franchise Across the Mississippi River at or Near Baton Rouge, Louisiana

Baton Rouge, La.

The Louisiana Highway Commission will, at 11 o'clock A. M. on TUESDAY, JULY 31, 1928, at its offices in the Raymond Building, Baton Rouge, Louisiana, receive proposals for the construction, operation and maintenance of a highway traffic bridge across the Mississippi River at or near Baton Rouge, Louisiana. All proposals must be in sealed envelopes, addressed to the Chairman of the Louisiana Highway Commission, and must be accompanied by a certified check for \$10,000, payable to the Louisiana Highway Commission, as an evidence of good faith. All checks of unsuccessful bidders to be immediately returned after the franchise has been awarded. The check of the successful bidder will be retained by the Commission until it is replaced with a bond for \$25,000, with the successful bidder as principal and a surety company authorized to do business in the State of Louisiana, as surety, conditioned upon the beginning of the work upon the bridge at such time as may be specified in the franchise. All bidders must be able to furnish bond of five (5%) per cent of the estimated cost of the bridge conditioned upon the faithful performance of the franchise, to be filed with the Louisiana Highway Commission at the time the work on the said bridge is begun.

Bids may be made in the alternative for either an exclusive highway traffic bridge, or a combination railroad and highway traffic bridge, and provision must be made in all of the proposals submitted for the amortization of that portion of the bridge devoted to highway traffic, if a combination bridge, or for the entire bridge, if an exclusive highway traffic bridge, with further provision for making the bridge free for highway traffic at the earliest possible time.

The Commission reserves the right to reject any and all proposals, or to select the proposal which seems most desirable and advisable for developing and perfecting the State Highway System of this State, and to enter into a contract accordingly.

LOUISIANA HIGHWAY COMMISSION.
FRANK T. PAYNE,
Chairman.

Bids close May 1, 1928.

Construction and Material Proposals

Bastrop, La.

The Police Jury of Morehouse Parish will receive bids up to 2 P. M. Tuesday, May 1, at Bastrop, La., and at that time and place publicly open and read proposals, for construction and materials for the following work:

1. Construction of 204-ft. pile-driven timber bridge on Overflow Creek 3 miles west of Jones, La.
2. 20,400 FBM white oak bridge lumber for Overflow Creek Bridge, delivered at bridge site.
3. 1200 lin. ft. creosoted DSYF piling, delivered at Jones, Louisiana.
4. Construction 2½ miles road from Beekman, La., to Stevenson, La.
5. Construction 2½ miles road from project No. 7 to Vaughn, La.
6. Furnishing 1500 cu. yds. gravel at Stevenson, La.
7. Furnishing 1500 cu. yds. gravel at Vaughn, La.
8. Furnishing of one carload Corrugated Metal Culverts at Bastrop, La.

Information governing manner of submitting the proposals, terms of payment and proposal blanks for submitting bids on the above work may be secured upon application at the Parish Engineer's office at Bastrop, Louisiana. A certified check in the amount of 5% of the amount bid must accompany each proposal, and a surety bond in the amount of 50% of the total amount bid will be required when contract is awarded.

J. LESTER WHITE,
Parish Engineer.

J. W. BRODNAX,
President.

Bids close May 1, 1928.

State Highways

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION

NOTICE TO CONTRACTORS

SEALED PROPOSALS for building five sections of State Highway as follows:

Carroll County, Cont. C1-70—One section of State Highway from end of Cont. C1-57, near Asbestos, to the Baltimore County Line, a distance of 1.66 miles. (Concrete.)

Queen Annes County, Cont. Q-45—One section of State Highway from Stevensville toward Love Point for a distance of 1.68 miles. (Concrete.)

Caroline County, Cont. Co-45—One section of State Highway between Whiteleysburg and Greensboro for a distance of 1.0 mile. (Concrete.)

Talbot County, Cont. T-30—One section of State Highway between Tripps Creek Bridge and Peachblossom Bridge, a distance of 1.45 miles. (Concrete.)

Baltimore County, Cont. B-39-B—One section of State Highway along the Philadelphia Road from end of Cont. B-39-A, at Devil's Elbow to Whitemarsh, a distance of 3.98 miles. (Concrete Shoulders.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 1st day of May, 1928, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form, which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 12th day of April, 1928.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary.

Bids close May 9, 1928.

Road Protection

Bay St. Louis, Miss.

Sealed bids will be received by the Road Protection Commission, Hancock County, Bay St. Louis, Mississippi, at the Court-house until 11 A. M. May 9, 1928, for the construction of certain road protection from Central avenue in Lakeshore, Mississippi, to the end of the wall near the north end of Julia street west of the corporate line of Bay St. Louis, with the exception of that portion of this roadway that has been paved within the City of Bay St. Louis.

The approximate quantities are as follows:

10,000 Cu. Yds. Earth Excavation.
132,600 Sq. Yds. Reinforced Concrete Pavement.
49,850 Lin. Ft. Combined Curb and Side-walk.
112 Lin. Ft. 18-in. and 24-in. Concrete Pipe.

Plans are on file in the office of the Chancery Clerk, Bay St. Louis, and at the Consulting Engineer's office, Bay St. Louis. Copies may be obtained at the office of James W. Billingsley, Consulting Engineer, Interstate Bank Building, New Orleans, La., upon payment of \$12.50, which will not be returned.

A certified check for five (5%) per cent of the total bid, made payable to the Chancery Clerk, Hancock County, must accompany all bids.

The right is reserved to reject any and all bids and to waive technical errors.

ROAD PROTECTION COMMISSION OF HANCOCK COUNTY, MISSISSIPPI.

By R. C. ENGMAN, Chairman.

BOARD OF SUPERVISORS OF HANCOCK COUNTY, MISSISSIPPI.

By H. S. WESTON, President.

JAMES W. BILLINGSLEY,
Consulting Engineer.

Bids close May 1, 1928.

Power-Plant Equipment

Rolling Fork, Miss.

Notice is hereby given that the Mayor and Board of Aldermen of the Town of Rolling Fork, Mississippi, will receive sealed bids up until 4 P. M. of the 1st day of May, 1928, for

One (1) Diesel Oil Engine, Horse Power Rating of 120 to 180, direct connected to Generator, rating from 90 K.V.A. to 140 K.V.A., including Exciter, Switch Board Panel for same fully equipped with necessary Switches and Instruments including Watt Hour Meter, Synscope and Automatic Voltage Regulator; also Switch Board Panels for 60 and 40 K.V.A. Units fully equipped so as to utilize Polyphase Watt Hour Meter, Synscope and Voltage Regulator on Panel Board for Unit to be purchased. Also series Street Light Panel, all Panels to be of like designs; also submit bids for the above equipment less Watt Hour Meter, Synscope and Voltage Regulator.

The Board reserves the right to reject any or all bids submitted for their approval.

SAM ROSENTHAL,

Mayor.

L. P. BARRIER,

Clerk.

Bids close April 24, 1928.

Heating, Plumbing and Electrical Work

DeLand, Fla.

The Board of Commissioners for Volusia County, Florida, will receive sealed proposals until 10 o'clock A. M. April 24, 1928, at the office of Sam'l D. Jordan, Clerk of said Board, DeLand, Florida, for the installation of mechanical equipment to be installed in Volusia County Courthouse. This equipment will consist of heating, plumbing and electrical work.

Plans may be had of the Architects, W. D. Harper & Co., Florence, S. C., or of W. P. Tennent, Supt. of Construction, DeLand, Florida. A cash deposit of \$15 will be required for the plans as a guarantee that the plans will be returned in good condition on the above-mentioned date. Deposit to be forfeited to the Architects if above terms are not complied with.

Dated this 7th day of April, A. D. 1928.
BOARD COUNTY COMMISSIONERS,
VOLUSIA COUNTY, FLORIDA.

W. P. WILKINSON, Chairman.

Attest:

SAM'L D. JORDAN, Clerk,
Board County Commissioners.

Bids close May 3, 1928.

Water-Purification Plant, Intake and Appurtenances

Phenix City, Alabama.

Sealed proposals will be received by the Water Works Commission of the City of Phenix City, Alabama, until 2.00 P. M. May 3, 1928, and then opened, for furnishing materials and equipment and constructing works for obtaining a new water supply, consisting of:

RIVER INTAKE
PUMPING STATION
FORCE MAIN
SETTLING BASIN
PURIFICATION PLANT
FILTERED WATER RESERVOIR
PIPE LINE CONNECTIONS TO PRESENT DISTRIBUTION SYSTEM.

Plans may be examined at the office of the "Water Works Commission" and at the office of the Engineer. Plans and specifications with the required proposal blanks may be obtained by remitting \$15.00 to the Engineer for each set. Proposals made on blanks other than those furnished will not be considered by the Commission.

Each bid must be accompanied by a certified check for an amount not less than 5 per cent of the total amount of the bid. Failure or neglect to enter into the Contract and furnish necessary bond or collateral through surety authorized to do business in Phenix City, within a specified time after being notified of the award, will forfeit certified check to the Water Works Commission of the City of Phenix City as liquidated damages.

DR. ASHBY FLOYD,

President, Water Works Commission of the City of Phenix City, Alabama.

Engineer:

WARREN E. DARROW,
Columbus, Georgia.

ROY L. SMITH,

Clerk-Treasurer of the Commission.

Bids close April 26, 1928.

High School

Lumberport, W. Va.

This is to give notice that the BOARD OF EDUCATION OF EAGLE DISTRICT, Harrison County, West Virginia, will receive sealed proposals until 7 o'clock P. M. on Thursday, APRIL 26, 1928, for the construction of a HIGH SCHOOL BUILDING to be built on the property of the Board of Education at LUMBERPORT, according to plans and specifications and under the supervision of S. W. Ford, Architect.

Bids will be received on the building complete, including everything shown on the plans and described in the specifications, and also as otherwise noted. (See instructions to bidders.)

Plans and specifications are on file at the offices of the ARCHITECT, S. W. FORD, 305-306 Latstetter Building, CLARKSBURG, W. Va., where they may be examined and figured during working hours by persons desiring to submit bids. A deposit of Twenty-Five Dollars cash or certified check will be required of all persons desiring to take plans away from the office, which deposit will be returned when the plans are returned, accompanied by a regular bid on the work according to instructions for submitting same.

Each bid must be accompanied by a certified or cashier's check on some solvent bank in the State of West Virginia for three per cent of the amount of the bid as a guarantee that the successful bidder will enter contract and give the required bond according to law. Checks will be made payable to the Board of Education of Eagle District, and will be forfeited to the Board as liquidating damages if the contractor to whom the award is made fails to sign the contract and file necessary bond.

The award will be made and contract signed within fifteen days from the day of this letting, at which time a satisfactory bond must be filed by the contractor.

Bids must be sealed and addressed to F. B. Harrison, Secretary, Lumberport, W. Va., and must be in his hands not later than 7 o'clock P. M. on Thursday, April 26, 1928, as marked for identification, "Bid on High School Building."

Bids will be publicly opened on the above named date at the offices of the Board of Education in the public school building at Lumberport.

The Board reserves the right to accept or reject any or all bids.

By order of the Board.

J. H. KNIGHT, President.

F. B. HARRISON, Secretary.

Bids close April 25, 1928.

Laboratory Supplies

DEPARTMENT OF EDUCATION
OFFICE OF THE
BOARD OF SCHOOL COMMISSIONERS
Madison and Lafayette Avenues

Baltimore, April 11, 1928.

SEALED PROPOSALS, in duplicate, addressed to the Board of Awards of Baltimore City, will be received at the office of the City Register, City Hall, Baltimore, Md., until 11 o'clock A. M., Wednesday, April 25, 1928, endorsed:

"Proposals for Laboratory Supplies for the Department of Education."

Specification for the above may be obtained at the office of the Director of Business Management of the Department of Education, Madison and Lafayette Avenues, Baltimore, Md.

Each bid must be accompanied by a certified check of the bidder for \$50, made payable to the order of the Mayor and City Council of Baltimore, and drawn on a clearing-house bank.

The successful bidder will be required to give bond for the faithful performance of his contract, and in an amount equal to the contract price, and to comply with the City Charter respecting contracts.

The Board of Awards reserves the right to reject any or all bids.

JOSHUA R. JOLLY,

Acting Secretary Board of School

Commissioners.

Approved, April 11, 1928.

WILLIAM F. BROENING,

President Board of Awards.

Bids close May 10, 1928.

Clamshell or Hydraulic Dredge Work

NOTICE TO CONTRACTORS

Baton Rouge, La.

Sealed Proposals will be received by the LOUISIANA HIGHWAY COMMISSION at their office in the Raymond Building, Baton Rouge, Louisiana, up to 11 o'clock A. M.

THURSDAY, MAY 10, 1928,

at which time and place they will be publicly opened, for the following work:

STATE PROJECT 156-A, UNIT NO. 1,
JEFFERSON PARISH, HAMMOND-
NEW ORLEANS HIGHWAY.

Section "A," Unit No. 1, begins near the Orleans Parish Line at West End and extends in a westerly direction along the south shore of Lake Pontchartrain to the St. Charles Parish Line, a distance of 9.78 miles. This work consists of raising the embankment constructed by Sub-Drainage District No. 3 of the Fourth Drainage District of Jefferson Parish to elevation 29.0 cairo Datum. The completed embankment to have a top width of 70 feet, with side slopes of 2:1. Approximately 525,000 cubic yards (net) of embankment are to be placed. Bids are invited for constructing the embankment with a Clamshell dredge or with a Hydraulic dredge.

STATE PROJECT 156B, UNIT NO. 2, ST.
CHARLES PARISH, HAMMOND-
NEW ORLEANS HIGHWAY.

Project 156-B, Unit No. 2, begins near the St. Charles-Jefferson Parish Line and extends along the south shore of Lake Pontchartrain to the I. C. Railroad, about one-half mile northwest of the LaBranch depot, a distance of 5.72 miles. The work consists of filling or chasler's check on some solvent bank in the State of West Virginia for three per cent of the amount of the bid as a guarantee that the successful bidder will enter contract and give the required bond according to law. Checks will be made payable to the Board of Education of Eagle District, and will be forfeited to the Board as liquidating damages if the contractor to whom the award is made fails to sign the contract and file necessary bond.

Information as to the location, character of work, extent and class of material, terms of payment, regulations governing manner of submitting proposals and executing contract may, on application, be obtained at the office of the Louisiana Highway Commission, Raymond Building, Baton Rouge, Louisiana. Plans and specifications may be inspected at the office of the Commission in Baton Rouge, or will be furnished upon receipt of \$5.00 for each project, as payment therefor not to be refunded. Each bid shall be submitted on a form furnished by the Commission and shall be placed, together with the proposal guaranty, in a sealed envelope so marked as to indicate its contents without being opened. This envelope shall then be placed in another, which shall be sealed and addressed to the LOUISIANA HIGHWAY COMMISSION, REYMOND BUILDING, BATON ROUGE, LOUISIANA. FRANK T. PAYNE, Chairman.

LOUISIANA HIGHWAY COMMISSION.
NICHOLS W. BOWDEN,
State Highway Engineer.



CLASSIFIED OPPORTUNITIES



MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

LIMESTONE DEPOSIT

FOR SALE—Limestone deposit near Hawkinsville, Ga.; analysis 90% Lime.
ROBERT S. ANDERSON,
Hawkinsville, Ga.

FOR SALE TWO DEPOSITS OF LIMESTONE

IN NORTHWEST FLORIDA
Both large tonnage and high grade. Railroad runs through one and no great distance from other. Should interest Cement Manufacturers. Address

S. D. CRENSHAW,
P. O. Box 667, Richmond, Va.

TIMBER AND TIMBER LAND

I SPECIALIZE
in large tracts of timber. Buy, sell or trade.
BOB WORKMAN,
Tampa, Fla.

400 ACRES timbered land, 20 miles northeast of Antlers, Okla., 60 miles east of McAllister coal field; clear titles and abstracts. Bargain for cash. L. H. CANTWELL, Owner, McKinney, Texas.

18 MILLION FEET virgin stumpage in West Central Georgia; gum and oak predominate; bottom land, but not swampy. Trunk-line R. R. through center, siding on property; \$90,000. Cruiser's report and full details to bona fide buyer. KEITH WEBB & SON, 217 First National Bank Building, Chattanooga, Tenn.

FOR SALE

5235 acres Timber Lands, located in Sevier County, Tenn., on Chilhowee Mountain, close to Northern Boundary of the proposed Smoky Mountain National Park. Clear streams; excellent location for game preserve or private park. 28,000,000 feet timber. Low price for quick sale.
GEO. E. DAVIS, Bristol, Va.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

GET FLORIDA property you want for what you have up North or vice versa. Hundreds of Listings. Address the "Old Reliable" Bruce Investment Co., Tampa, Florida.

FLORIDA

400 ACRES, solid block, good agricultural land, 22 miles north of Tampa P. O., \$20 per acre. Send today for booklet and new list of Groves and Farms. Tampa-West Coast Realty Co., Opp. P. O. "Since before the War," Tampa, Florida.

FLORIDA Colonization Tracts, Farms, City property and Citrus Groves. Co-operative Association, giving resident and non-resident members' groves scientific care.

E. J. KAUFMANN, Realtor,
(Established 1918).
P. O. Box 15, Lakeland, Fla.

SUGAR LANDS FOR SALE. 20,000 Acres.

Palm Beach County, Florida.
Adjoining Southern Sugar Co.
(Dahlberg) development.
For special wholesale price to close partnership, and terms, address
H. G. GEER,
151 Chilian Ave., Palm Beach, Fla.

GEORGIA

FOR SALE—Farm of 2200 acres, located on paved New York to Florida National Highway, 22 miles from Macon, Georgia, at a price which would not more than pay for the improvements and personal properties thereon. J. W. WOOLFOLK, Fort Valley, Ga.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made. Terms. Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

FARM, FRUIT AND TRUCK LANDS

NORTH CAROLINA

If interested

FOR HOME OR FOR INVESTMENT
In the great and rapidly developing STATE OF NORTH CAROLINA, especially in its leading city, Charlotte, or in a Southern Cotton Mill or Southern Mill Stocks, write to

F. C. ABBOTT & CO.,
Realtors and Investment Bankers
Nearly thirty years in Charlotte.

SOUTH CAROLINA

FOR SALE

Farm 718 acres in Piedmont section South Carolina, Chester County, with eleven-room, two-story modern residence, barn and garage, all in first-class condition. Also eleven tenant houses, in good condition. Land is very fertile and consists of bottom, wood and upland. Has three water courses, any one sufficient for farm electric-light plant. One mile from good town, with first-class schools and churches, on State Highway No. 902 and Calhoun Highway from coast to coast. Excellent site for Poultry Farm or for General Farming. Sacrifice price for quick sale. \$25,000. Address
DR. S. JORDAN, Richburg, S. C.

TEXAS

RIO GRANDE VALLEY—500 acres, \$50 an acre; fourth cash. Orange trees 50 years old joins. Abundant shallow well water. Fine for development and immense honorable profits. Blackshear, Brownsville, Tex.

FOR SALE—Buy a 640-acre farm in the sunny South with an average temperature of 50 degrees, with no crop failures, three miles northeast of Buna, Texas, on highway, all under fence, 100 acres in cultivation and clear of stumps; has some oil indications; with dwelling, price \$15 per acre, half cash, balance on terms. S. B. Conn., Kirbyville, Texas.

"TEXAS 'WINTER GARDEN' LANDS."

A subdivision in 20-40 acre tracts, cleared and irrigated; suitable for Citrus Fruits, Winter Vegetables, Staple Crops. Reasonable prices. INVESTIGATE our proposition TODAY.

BERMUDA LANDS COMPANY, Realtors,
501-4 Houston Building,
San Antonio, Texas.

MONTGOMERY COUNTY—First county north of Houston, ideal climate, all year crop seasons, excellent truck growing, unsurpassed opportunities in dairying, live stock, and poultry industries. Center of great future development. Conroe, county seat, offers attractive factory opportunities. Get your home or business while lands are cheap. Write for particulars. Southern Land Company, Conroe, Texas.

FARM, FRUIT AND TRUCK LANDS

TEXAS

ONLY \$3.50 bonus for 13,900 acres Oil land Brewster County, Texas. State debt \$1.25. This ranch will run 2000 cows. Victor Bengtson, 401 Nalle Bldg., Austin, Texas.

BUSINESS OPPORTUNITIES

CAPITAL—For complimentary copy of the "Promoters' Hand Book," a leaflet on financing. Address AMSTER LEONARD, East Orange, N. J.

MONEY MAKERS for some one able to promote. Newly patented rack for displaying mattresses on edge; 50,000 mattress dealers need them. Inexpensive; made of wood. All or part United States; bargain. J. C. JENNINGS, Winnsboro, Texas.

WANT TO CHANGE LOCATION?

A progressive young business firm making Architectural Bronze for banks and office buildings is in the market for a sales manager who wants to invest fifteen or twenty thousand dollars. Must be able to read blue prints and submit estimates on work and have pleasing personality. Address Box 275, Central Park Sta., Houston, Texas.

HOTEL FOR SALE

HOTELS IN DAYTONA BEACH AND ORMOND, FLORIDA, are now closing best season ever experienced during normal times. Now is the time for you to get into the Winter hotel business in Florida. We offer for sale a small, highly desirable hotel, which, owing to a reorganization, we can sell at less than its replacement cost today, not counting land or furnishings. Address

L. W. MIMS,
P. O. Box 222, Daytona Beach, Fla.

CITY AND SUBURBAN PROPERTY

ORMOND BEACH, FLORIDA

River to Ocean Property at Bargain Prices. Large strip of land on the famous Ormond-Daytona Beach, running back 2900 feet to the Halifax River, located two miles north of the Ormond Beach Hotel (owned and operated by the Florida East Coast Railroad) and the winter residence of Mr. John D. Rockefeller. For quick sale I offer a portion of this land for cash at a price way below its present value.

It is an ideal location for a large private estate or for a high-class residential development.

For particulars please address
WALTER L. THURSTON,
P. O. Box 1, Ormond Beach, Florida.

ADVERTISING AND PUBLICITY

DEVELOPMENT ADVERTISING and publicity man, widely experienced on big projects, available for long or short campaign. Address No. 6890, care Manufacturers Record, Baltimore, Md.

PUBLIC UTILITIES WANTED

HAVE CLIENTS with money to invest in public utilities, electric-power plants, waterworks systems and ice factories. Write George B. Baskerville, Cons. Engineer, 1616 Tenth Avenue, South, Birmingham, Ala.

INDUSTRIAL SURVEYS

ENGINEERING REPORTS on resources of cities and towns. Recommendations for industrial development made by specialists in locating industries.

TECENICAL SERVICE COMPANY
Woolworth Building New York City

INDUSTRIES WANTED

INDUSTRIES WANTED
at Buchanan, in the Valley of Virginia. On the historic James River and nationally noted highway leading from Canada and New England to the South and Southwest, twenty-five miles north of Roanoke city. 100 acres free sites on either the Norfolk & Western or Chesapeake & Ohio Railways. Splendid location for manufacturing plants such as textile goods, rayon, furniture of both hard and soft woods; unlimited electric power. Water analysis shows special fitness for textiles of all kinds. Survey shows abundant labor, both male and female. Splendid farming and dairying territory adjacent. Schools the highest standard. Banking facilities adequate for all demands. Full information furnished by Industrial Committee of Business Men's Club.

INDUSTRIAL PLANTS

A COMPLETELY EQUIPPED MILLWORK MANUFACTURING PLANT at Spartanburg, S. C. for Rent. A wonderful opportunity to the right party. Address SPARTANBURG LUMBER MFG. CO.

MALT SYRUP PLANT For Sale in Ohio. Completely equipped for large production. Valued at \$280,000, including several distillery warehouses. Will sell for \$55,000 as a going concern or as a wrecking proposition to close books. Particulars, W. Waterman, 209 Crescent Ave., Buffalo, New York.

FACTORY BUILDING

FACTORY BUILDING AVAILABLE in Southern town of 3000 population. Two-story brick building, with 10,000 feet floor space; steam heated, sprinkler system, electric lights, large windows; located on railroad. Suitable for textile mill, hosiery mill or similar use. Healthful location, good water, sewers, paved streets; labor plentiful and cheap. Liberal co-operation of citizens. No. 6894, care of Manufacturers Record.

FACTORY SPACE

FOR RENT—FACTORY SPACE, Spartanburg, S. C.
Suited for Candy, Cheese or Sausage Factory, Bakery, Pie or Cake Plant, Butter, Mayonnaise or Fruit-preserving Business.
Second Floor, Modern Brick Building: Steam Heat; windows four sides; 3 blocks to center of city; direct front entrance; office space across entire front; 1691 cubic feet Cold Storage, any temperature desired. Total square feet, 4828. Write Box 381 for particulars; blueprint.

FACTORY SITES

"OFFER—Pulp and Paper Manufacturers, free site, three railroads, cheap timber, natural gas abundant, large salt mines, labor 25c per hour. P. O. Box 891, Shreveport, Louisiana."

TAMPA, FLORIDA—the logical distributing plant. HARRIS TERMINALS—fully equipped with railroad tracks on both the Seaboard and Atlantic Coast Line railroads. We solicit your inquiries for WAREHOUSE and FACTORY sites. Prices and terms reasonable. HARRIS REALTY CO., Realtors, 105 W. Case St., P. O. Box 585, Tampa, Florida.

A SMALL TOWN in Piedmont, North Carolina, will give to any manufacturing enterprise a site, with ample frontage on railroad. No city taxes. Labor cheap and plentiful. Abundant electric power available. For particulars address
T. G. MYERS,
Southmont, North Carolina.

PATENT ATTORNEYS

FREE "PATENT PARTICULARS" Sterling Buck, over 21 years Registered Patent Attorney. Prompt and thorough services. Suite M, 629 F, Washington, D. C.

PATENTS—Booklet free. Highest references. Best results. Promptness assured. WATSON E. COLEMAN, Patent Lawyer, 724 Ninth St., N. W., Washington, D. C.

PATENT ATTORNEYS

PATENTS—TRADEMARKS—COPYRIGHTS Charlotte office convenient to South. PAUL E. EATON, Registered Patent Attorney, 406 Independence Building, Charlotte, N. C., and 903 Grant Place N. W., Washington, D. C.

FOREIGN AGENCY WANTED

MANUFACTURERS AGENT in Europe. Salesman desires to represent American Manufacturer in Europe; lumber, building material or machinery. Address No. 6892, care Manufacturers Record, Baltimore, Md.

AGENCIES WANTED

WISH TO ACT as Manufacturers representative in Jacksonville and on the east coast of Florida. References. Address No. 6891, care Manufacturers Record, Baltimore.

SUCCESSFUL SALES EXECUTIVE will represent product of merit in Cleveland and vicinity; references. Address No. 6896, care Manufacturers Record, Baltimore, Md.

TAKE ADVANTAGE of water and differential rates to Houston, Texas. Equipped to handle for distribution raw materials, manufactured goods or any commodity. Satisfaction guaranteed. A-1 reference. ED. SACKS, Postoffice Box 708, Houston, Texas.

DISTRIBUTORS WANTED

DISTRIBUTORS WANTED
Good, live machinery distributors wanted to handle the complete line of OSGOOD gasoline, steam or electric powered shovels, cranes, draglines and back hoes. Excellent territories open throughout the South and Middle West.

THE OSGOOD COMPANY,
Marion, Ohio.

SITUATIONS WANTED

HIGH-CLASS SALES EXECUTIVE wishes position as district manager, Kansas City territory. Wide acquaintance Middle West. Eighteen years' sales and executive experience. Last three years general sales manager for prominent electrical jobbing house. Address No. 6897, care of Manufacturers Record, Baltimore, Md.

MECHANICAL ENGINEER, member A. S. M. E., desires opening where his wide experience in selling, servicing and repairing large steam engines and other power-plant equipment can be used to advantage. Thoroughly familiar with the theory and practice of steam-power engineering. For further information, references, etc., address No. 6898, care Manufacturers Record, Baltimore.

CONSTRUCTION MANAGER, age 39, married, desires to connect with large construction company as resident manager, or large corporation doing its own building, or small corporation that needs capable man familiar with all parts of the business. Experienced in industrial, commercial, educational building, in charge of estimates, contracting, buying, subcontracts and field supervision. Location immaterial. Qualified by past experience similar capacity. Address No. 6893, care Manufacturers Record, Baltimore, Md.

WANTED, POSITION by applicant with experience in architectural construction work, purchasing and office building management. Age 48.

First class training in architectural profession, followed by 26 years of practical experience, 14 years with same firm of Architects as superintendent, specification writer and checker, having had complete charge of receiving bids, letting of contracts and all work from completion of drawings to the finished buildings, specially qualified in office buildings and hospitals.

During past five years have combined architectural work and office building management as follows: remodeled and modernized one eight-story office building and designed and erected ten-story office building, management of both buildings, including all rentals, collecting, purchasing and employees.

Desire connection with high class architectural firm, or as manager of office building or purchasing agent.

Correspondence solicited, address No. 6895, care Manufacturers Record.

MEN WANTED

WANTED
Experienced Building Superintendent.
KING LUMBER CO.,
Charlottesville, Va.

TRAVELING SALES ENGINEER WANTED for steam and electrical apparatus; thoroughly practical and experienced man required; Mechanical Engineer, well acquainted throughout the Carolinas, preferred. P. O. Box 886, Greensboro, N. C.

EXPERIENCED energetic sales manager for well-established inspection bureau, capable of handling district office as well as the developing of new fields for this service. Prefer age 38 to 48—reference required, which will be treated confidential. No. 6888, care of Manufacturers Record.

SALESMAN WANTED—Our proposition offers greater earning possibilities to the real salesman than is offered to him in most any other line. A credit and collection service with a bonded recovery obligation. American Security Credit Company, General Offices, St. Louis, Mo.

SALES OPPORTUNITY

Have you a knowledge of boilers, mechanical equipment or engineering? Have you sold to Engineers or Industrial Buyers? Our products naturally know, used by largest industries, manufacturers, public institutions, hospitals, hotels, all buildings. Backed by a Surety Bond. Exclusive territory; personal training. Permanent, profitable position. State experience. Replies confidential.

THE NORTH AMERICAN FIBRE
PRODUCTS COMPANY

Cleveland, Ohio

IF YOU ARE OPEN to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited. The undersigned provides a thoroughly organized service, of recognized standards and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements; your identity covered and present position protected. Established seventeen years. Send only name and address for details.

R. W. BIXBY, Inc.,
103 Downtown Bldg., Buffalo, New York.

CONTRACT WORK WANTED

PLATE WORKING MACHINERY—a complete line.
General and Special Machinery.
Castings: Grey Iron and Semi-Steel, any size up to 40,000 lbs.
Brass, Bronze and Aluminum to 10,000 lbs.
COVINGTON MACHINE COMPANY, INC.,
Engineers Founders Machinists
Covington, Va.

MACHINERY AND SUPPLIES

FOR SALE—One Dictaphone outfit, complete; cost \$400, will sell for \$250 cash. Used thirty days. Dade Lumber Company, West Palm Beach, Fla.

FOR SALE—Extraordinary bargain, 6,000 8x12 Dry-wall Blystone Tile Pallets for sale at 10c each. Sold in any quantity desired, Nepperhan Concrete Products Corp., Yonkers, N. Y.

ICE-MAKING AND REFRIGERATING MACHINERY—New and rebuilt. Our prices on new Waynesboro Refrigerating Equipment and Household Electric Refrigerators very low. Buy direct from the manufacturer. All sizes. Get our prices on your requirements. GEISER MANUFACTURING COMPANY, "Department E," Waynesboro, Pa.

MACHINERY AND SUPPLIES WANTED

WANTED—Second-hand Photostat or Rectograph machine. Must have all necessary equipment to complete Photostatic work. Write P. O. Box 498, Greensboro, N. C.

ORMOND BEACH, FLORIDA

River to Ocean Property at Bargain Prices

Large strip of land on the famous Ormond-Daytona Beach, running back 2900 feet to the Halifax River, located two miles north of the Ormond Beach Hotel, (owned and operated by the Florida East Coast Railroad), and the winter residence of Mr. John D. Rockefeller. For quick sale I offer a portion of this land for cash at a price way below its present value.

It is an ideal location for a large private estate or for a high class residential development.

For particulars please address

Walter L. Thurston
P. O. Box 1 Ormond Beach, Fla.

For Sale**Planing Mill and Retail Lumber Yard**

Planing mill and retail lumber yard located in the heart of the yellow pine belt of lower South Carolina. Well established trade in both wholesale and retail lines. Complete in every detail, including two saw-mills, four dry kilns, lighting system, water system, sprinkler system, high speed Woods planer, two moulders, band re-saw, band rip-saw and 14x26 Berlin timber sizer. Plant now running full time. Well organized crew of experienced planing mill men. If interested,

Address A-441

Care of Manufacturers Record Baltimore, Md.

**RESALE DEPARTMENT**

MACHINERY

EQUIPMENT

SUPPLIES

**3 PHASE GENERATORS**

1—30 KVA, 900 RPM, 220 V. 25 Cy. Burke.
1—40 KVA, 1200 RPM, 2300 V. 60 Cy. F. M.
1—40 KVA, 1200 RPM, 220 V. 60 Cy. F. M.
1—50 KVA, 1200 RPM, 2300 V. 60 Cy. G. E.
1—50 KVA, 1200 RPM, 220 V. 60 Cy. G. E.
Large Stock Motors. Bargain Prices.

V. M. NUSSBAUM & CO.
Fort Wayne Indiana

**ICE MACHINE
FOR SALE**

1—Fifteen-ton Voght Absorption type ice-making machine, complete in all respects except for reboiler and skimmer, \$3,000.00.

F. E. LeGALLEE, Agt.
Apalachicola Florida

**ALL NEW VERY CHEAP
IMMEDIATE DELIVERY**

1—Steam Engine, 250 H.P., compound.
2—Locomotives, steam, "American," std. and 36" gauges, oil and coal burners.
Pumps, Lighting Plants.

R. POLIAKOFF
709 Sixth Avenue New York City

BOILER BARGAIN

2—200 H. P. Ames Iron Works Horizontal Return Tubular Boiler, arranged for oil firing, 150-lb. ASME Mass. standard. Attractive offering. Wire or Write

CONSOLIDATED PRODUCTS CO., INC.
14-16 Park Row, N. Y. C. Barclay 0603

312 KVA A. C. ENG. GEN. SET

1—312 KVA Allis-Chalmers 2400 volt (can be reconnected for 240 or 480 volts) 3 ph. 60 cy. direct connected to 22"x24" Erie Ball simple engine with exciter and rheostat. Immediate shipment—Bargain Price.

MOORHEAD-REITMEYER CO., INC.
57 Water St. Pittsburgh, Pa.

**LAKEWOOD CARS AND
BATCH BOXES**

92—41 cu. ft. Batch Boxes (Never been used) f.o.b. Monticello, Fla. \$26.50 each
100—Reconditioned 45 cu. ft. Batch Boxes f.o.b. Oslo, Fla. (near Ft. Pierce)... \$28.50 each

45—No. 254-B Batch Box Cars (thoroughly overhauled) 2½ in. heat treated axles. Capacity—Two 45 cu. ft. Boxes f.o.b. Oslo, Fla.... \$80.00 each

(Batch Boxes are Without Cement Compartments)

The Lakewood Engineering Co.
Cleveland, Ohio

WANTED

One or two Steel Buildings second hand, but in good condition, approximately 60x100 feet x 12 ft. high; also one Steel building approximately 40x60x10 to 12 feet high.

COCKER MACHINE & FOUNDRY CO.
Gastonia, N. C.

**STEEL BUILDING and
MACHINERY**

Building 56'x110' with plans for two story garage or machine shop, can be used single story.

Mining locomotives, 5, 6 and 13 ton, 250 volts, 48" gauge (gauge can be changed).

Mining machines, 29-B are wall and 35-A short wall.

Rotary converters, 2-100 K. W. G. E. 2300 to 250 volts.

Motors up to 75 H. P. A. C. & D. C. Hoists, steam and electric.

Link Belt Loading boom, Phillips dumps, pumps, gears, pinions, transformers, armatures and field coils.

GUYAN MACHINE SHOPS
LOGAN, W. VA.

**GENERATING UNITS
FOR SALE**

2—McIntosh and Seymour Diesel Unit Engines, 225 Horsepower, direct connected to two 210 KVA alternators. Used one year.

1—400 Horsepower DeLaVergne direct connected to G. E. alternator, 2300 volts. In perfect condition, used less than year under very light load—complete particulars mailed on request.

HOWARD C. ELLIOTTE
315-16 Olympia Bldg.
MIAMI, FLORIDA

**For Immediate Delivery
MODERN TURBO-UNIT
EXTRACTION TYPE**

Consisting of

750 KW, 80% P.F., 937 KVA, 3 phase, 60 cycle, 600 volt, 3600 RPM, General Electric generator direct connected to a 3-stage Curtis Turbine, complete with motor driven exciter, switchboard panel, Wheeler Surface Condenser with all accessories and pipe connections. Complete power plant equal to new.

JOSEPH MYERSON
411 ATLANTIC AVE. BOSTON, MASS.

IF IT'S NEW PIPE OR SECOND HAND

black or galvanized up to 12"—we have it. Cut and threaded to any length. SPECIAL: a carload of 3" or 4". Cheap at any time, rethreaded and coupled.

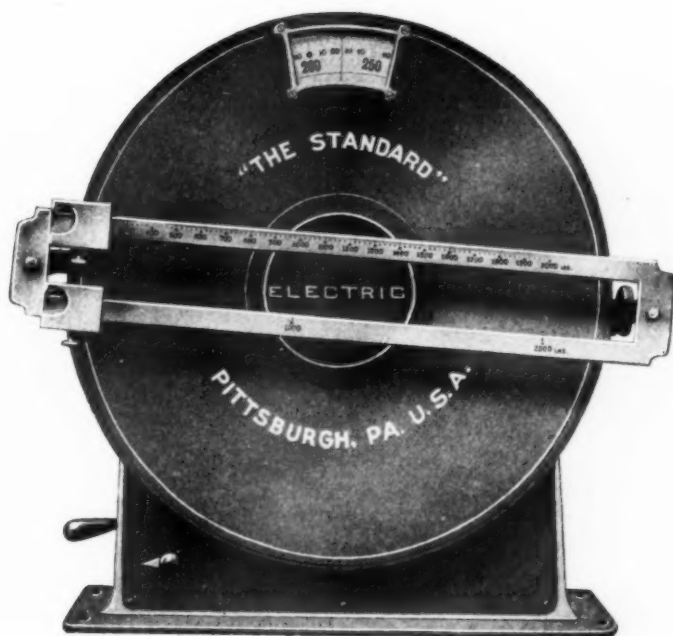
Your inquiry means—Another satisfied customer.

HUDSON PIPE AND SUPPLY COMPANY
34th Street and C. R. R. of N. J. Bayonne, N. J.

YOU may replace certain machinery in your plant this year. Let us help you sell the equipment you will no longer need by advertising it in

THE RESALE DEPARTMENT
Manufacturers Record Baltimore, Md.

Accuracy



within
1 % **70**
with

"The," **STANDARD** *Electric Dial Scale*

HERE is the crowning achievement of our many years experience in heavy duty scale design. A power dial scale that automatically strikes a perfect balance and quickly gives you the correct reading through the dial indicator at a single glance.

It relieves you of the time-consuming annoyance of balancing the scale by hand, giving you an immediate reading the

moment the material is placed on the scales.

Its unprecedented accuracy in giving correct weight within 1-70 of one percent is due to the fact that its design is based on the precision balance principle of a chemists' laboratory scale, long known for its fine accuracy.

You will find it interesting and worth while to read our descriptive Bulletin No. 10. Send for it.

The Standard Scale & Supply Corporation
 First Avenue • Pittsburgh, Penna.

District Offices

New York: 145 Chambers Street Cleveland: 721 St. Clair Ave., N. E.
 Philadelphia: 510 Arch Street Chicago: 1840 Michigan Blvd.



Direct Drive! for Hoist, Swing and Crowd

June 28, 1927

Marion Steam Shovel Co.,
San Francisco, Calif.
Attention R. M. Weaver
Gentlemen:

Your inquiry regarding the Type 7 Gasoline-Electric Shovel and Clamshell Machine purchased from you can best be answered by saying that this machine has been in practically continuous service since Jan. 2 this year on a large sewer contract which I have in San Francisco and that during this time I have had no breakage of any nature and only one or two minor delays and having used the friction Type Machines I appreciate the consistent performance of the Gas Electric.

Sincerely,
FRANK J. McHUGH

Mail Bulletin 319-A to

Firm Name _____

By _____

Address _____

Nature of Work _____

*No complicated gear
trains or clutches to
reduce power and increase
maintenance costs*

THERE are no slipping, jerking motions in the Type 7 Gas-Electric because the principle of direct drive gives the flexibility of Steam. This super-smoothness reduces wear on parts and with each power unit direct-connected to its operation there is a minimum of loss in transmission of power.

Long life and continuous operation means greater economy, increased profits.

Mail the coupon for Bulletin 319-A.

THE MARION STEAM SHOVEL COMPANY
MARION, OHIO, U. S. A.

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